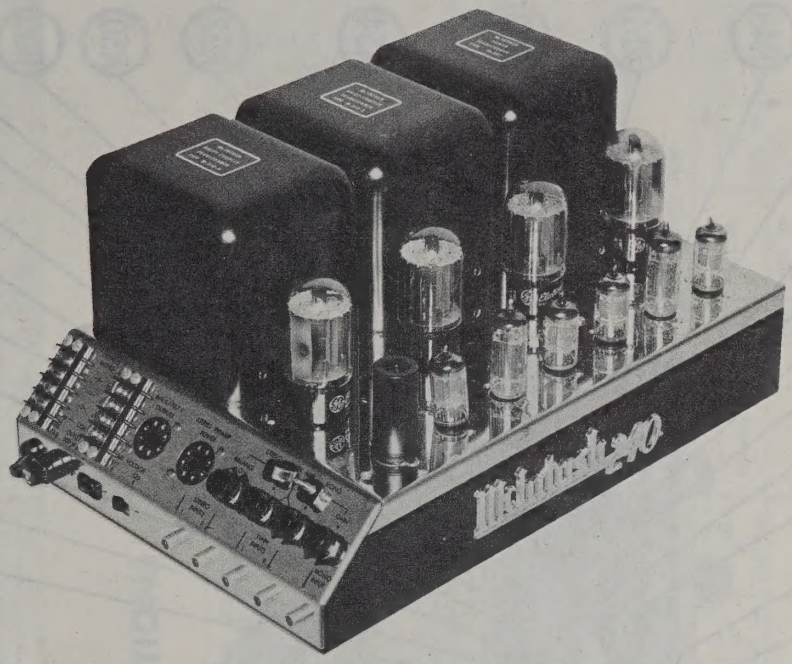
PHOTOFACT® Folder

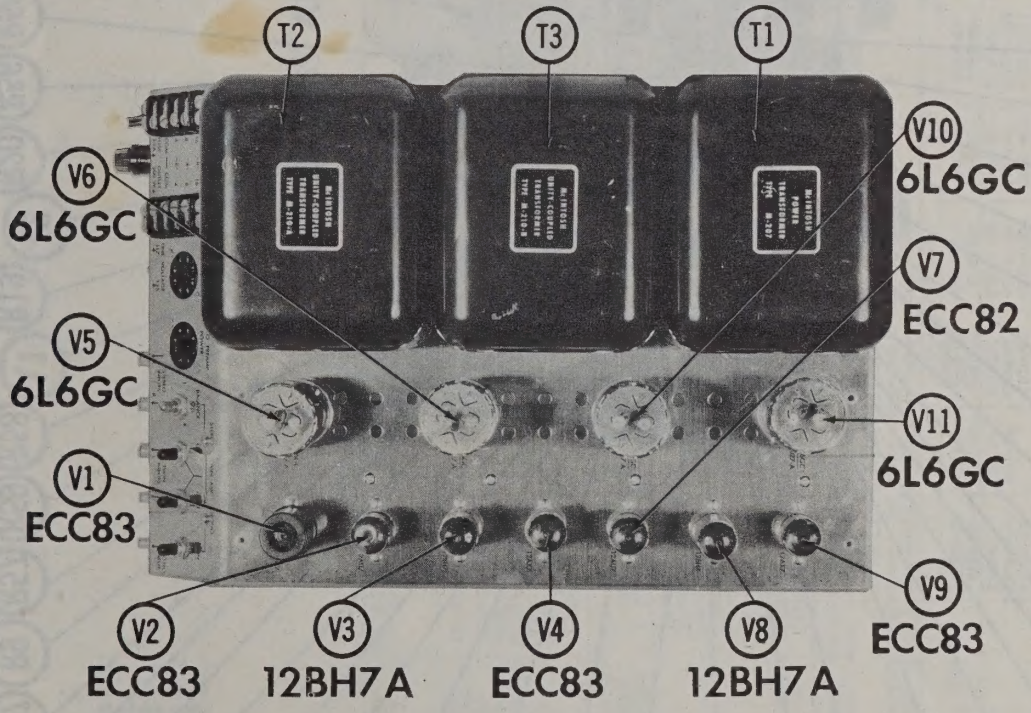
McINTOSH
MODEL MC-240

McINTOSH
MODEL MC-240



TRADE NAME	McIntosh Model MC-240 (Serial #1P001 and above)
MANUFACTURER	McIntosh Laboratory, Inc., 2 Chambers Street, Binghamton, N. Y.
TYPE SET	AC Operated 11 Tube Stereo Amplifier
POWER SUPPLY	105 – 130 Volts AC, 50-60 Cycles RATING 160 Watts, 1.7 Amp. @117 Volts AC

McINTOSH
MODEL MC-240



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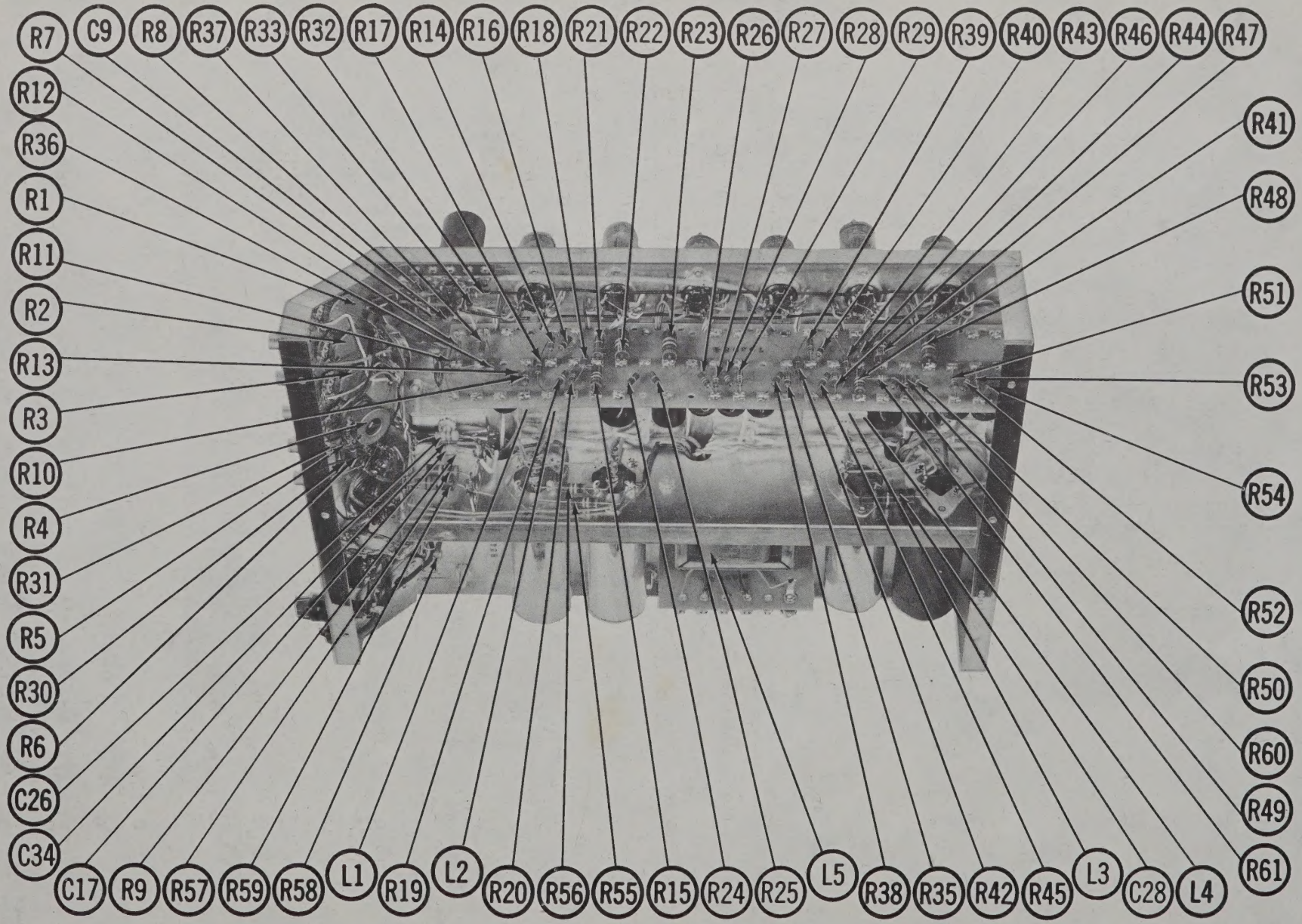
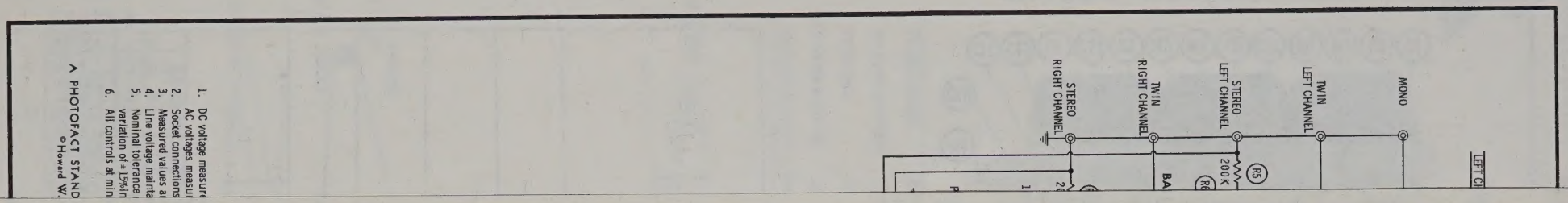
SET 554 FOLDER 6



CHASSIS BOTTOM VIEW



PARTS LIST AND DESCRIPTIONS

TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	Left Channel AF Amp. - Right Channel AF Amp.	ECC83/12AX7	V6	Left Channel Output	6L6GC (7027) *
V2	Left Channel AF Amp.	ECC82/12AU7	V7	Right Channel AF Amp.	ECC82/12AU7
V3	Left Channel AF Amp.	12BH7A	V8	Right Channel AF Amp.	12BH7A
V4	Left Channel Cath. Follower	ECC83/12AX7	V9	Right Channel Cath. Foll.	ECC83/12AX7
V5	Left Channel Output	6L6GC (7027) *	V10	Right Channel Output	6L6GC (7027) *
			V11	Right Channel Output	6L6GC (7027) *

* Alternate

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	RATING VOLT.	McIntosh PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1	250	250		AFH1-37-35	XA0318	XC1-23	WP132	TMS-1590	TVL-1590
C2	250	250		AFH1-37-35	XA0318	XC1-23	WP132	TMS-1590	TVL-1590
C3A	▲100	500	)	AFH1-63				TMD-2790	TVLS-2950*
B	▲30	450	(	PRS1740					
C4A	▲100	500	)	AFH1-63				TMD-2790	TVLS-2950*
B	▲30	450	(	PRS1740					
C5	12	250		PRS1560	BR1235	QT1-8	TC53	TD-12-250	TVA-1505
C6	100	12	Note 1	PRS1150	BBR100-15	QT1-23	TC2501	TD-100-15	TVA-1130
C7	100	12	Note 1	PRS1150	BBR100-15	QT1-23	TC2501	TD-100-15	TVA-1130

Note 1. Some versions may use 3 volt unit in this application.
* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C8	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C9	15 5%		NPO-DI 15	DTZ-15	C10Q15C	CCTO-150	CNO-415	10TCC-Q15
C10	.22 400V		P488N-22		CUB4P22	4DP-5-224	GEM-4022	4TM-P22
C11	.047 600V 10%		V84C6S47-10%		PM6S47	6DP-3-473	GEM-1615	6TM-S47
C12	.047 600V 10%		V84C6S47-10%		PM6S47	6DP-3-473	GEM-1615	6TM-S47
C13	.22 600V		P688N-22		CUB6P22	6DP-5-224	GEM-6022	6TM-P22
C14	.22 600V		P688N-22		CUB6P22	6DP-5-224	GEM-6022	6TM-P22
C15	.47 200V		P288N-47		CUB2P47	2DP-5-474	GEM-2047	2TM-P47
C16	.47 200V		P288N-47		CUB2P47	2DP-5-474	GEM-2047	2TM-P47
C17	470 10%			D6-471	5R5T47	CCD-471	GP347	10TS-T47
C18	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C19	.22 400V		P488N-22		CUB4P22	4DP-5-224	GEM-4022	4TM-P22
C20	.047 600V 10%		V84C6S47-10%		PM6S47	6DP-3-473	GEM-1615	6TM-S47
C21	.047 600V 10%		V84C6S47-10%		PM6S47	6DP-3-473	GEM-1615	6TM-S47
C22	.22 600V		P688N-22		CUB6P22	6DP-5-224	GEM-6022	6TM-P22

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C23	.22 600V		P688N-22		CUB6P22	6DP-5-224	GEM-6022	6TM-P22
C24	.47 200V		P288N-47		CUB2P47	2DP-5-474	GEM-2047	2TM-P47
C25	.47 200V		P288N-47		CUB2P47	2DP-5-474	GEM-2047	2TM-P47
C26	470 10%			D6-471	5R5T47	CCD-471	GP347	10TS-T47
C27	.01 600V		P688N-01	D6-103	CUB6S1	6DP-2-103	GEM-611	6TM-S10
C28	.01 600V		P688N-01	D6-103	CUB6S1	6DP-2-103	GEM-611	6TM-S10

CONTROLS

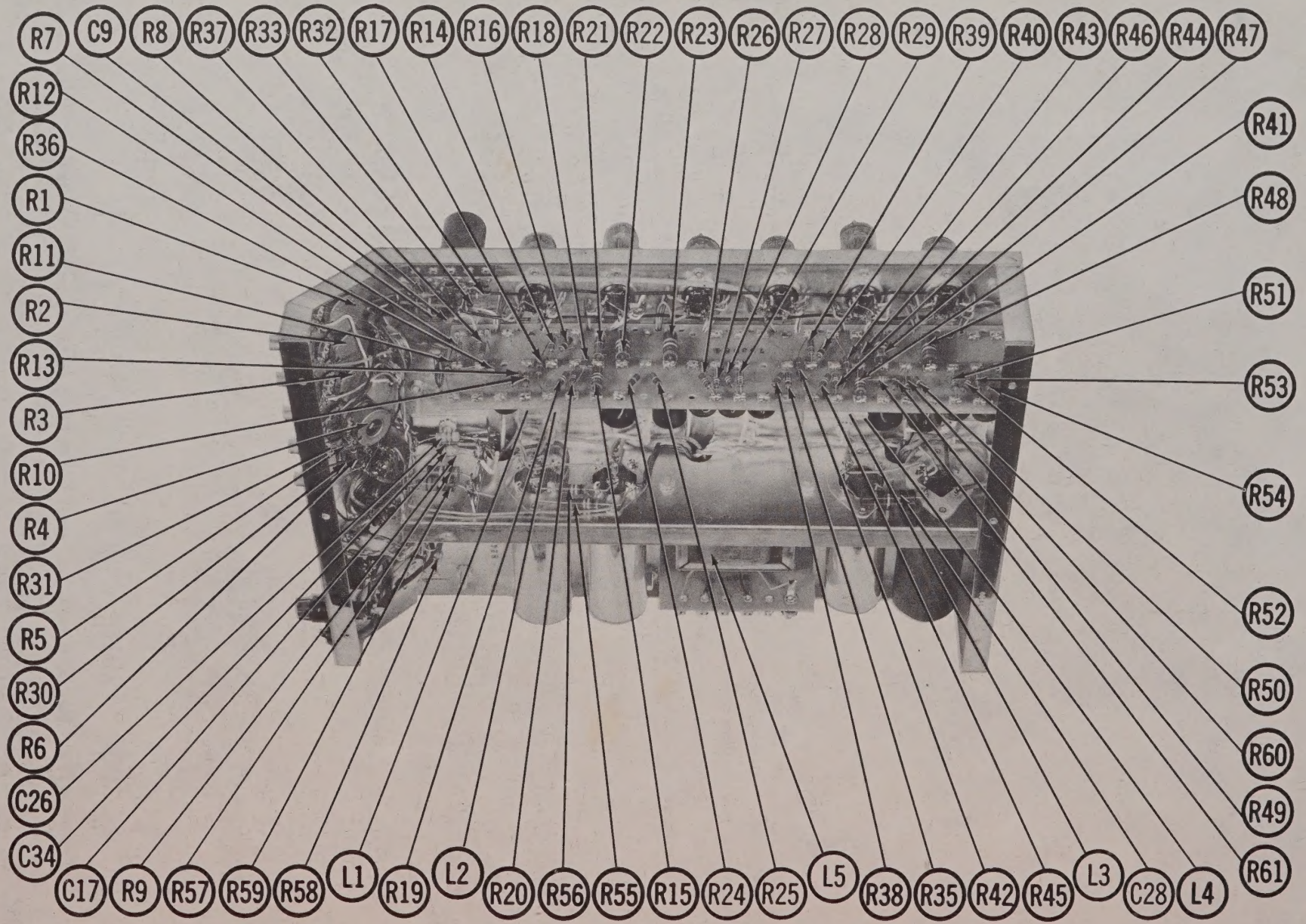
ITEM No.	RATING RESISTANCE	RATING WATTS	Mc Intosh PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
R1A	250K	½	R-106-2	B-51	A47-250K-Z	Q13-130	U44	Gain, Left Channel
B	Shaft			Not Req.	KSS-3	Not Req.	Not Req.	
R2A	250K	½	R-106-2	B-51	A47-250K-Z	Q13-130	U44	Gain, Right Channel
B	Shaft			Not Req.	KSS-3	Not Req.	Not Req.	
R3A	250K	½	R-106-2	B-51	A47-250K-Z	Q13-130	U44	Gain, Monaural
B	Shaft			Not Req.	KSS-3	Not Req.	Not Req.	
R4A	100K	½	R-106-1	B-41				Balance, Left Channel
B	100K	½		SR-42				Balance, Right Channel

RESISTORS

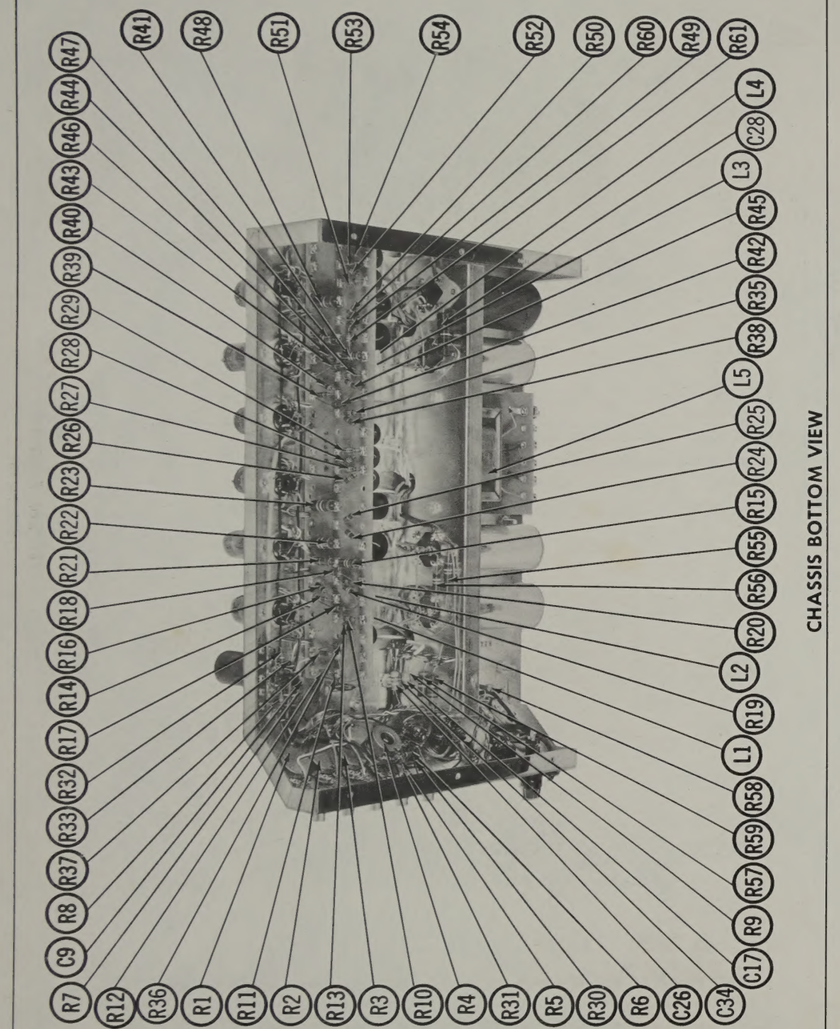
All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	IRC PART No.	WORKMAN TV PART No.	REMARKS
R5	200K			
R6	100K			
R7	10K			
R8	1meg			
R9	2200Ω			
R10	100K			
R11	3300Ω			
R12	68Ω			
R13	2.2meg			
R14	27K			
R15	18K 1W			
R16	30K			
R17	2.2meg			
R18	2.2meg			
R19	220K			
R20	220K			
R21	2700Ω 1W			
R22	12K 2W			

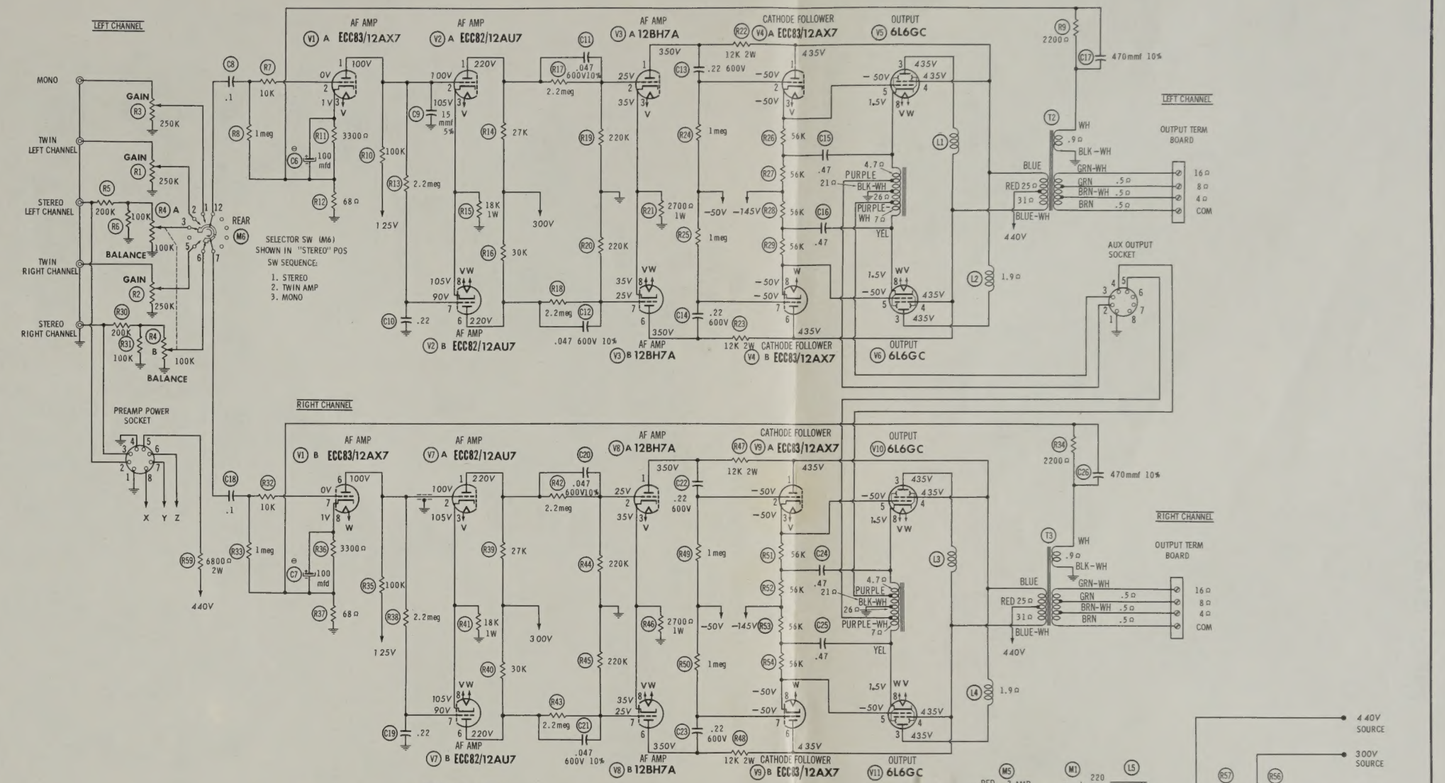
ITEM No.	RATING	IRC PART No.	WORKMAN TV PART No.	REMARKS
R23	12K 2W			
R24	1meg			
R25	1meg			
R26	56K			
R27	56K			
R28	56K			
R29	56K			
R30	200K			
R31	100K			
R32	10K			
R33	1meg			
R34	2200Ω			
R35	100K			
R36	3300Ω			
R37	68Ω			
R38	2.2meg			
R39	27K			
R40	30K			



CHASSIS BOTTOM VIEW



CHASSIS BOTTOM VIEW



RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	ECC83 12AX7	†210K	1meg	3300Ω	FIL	FIL	†210K	1meg	3300Ω	FIL
V2	ECC82 12AU7	†37K	†210K	18K	FIL	FIL	†40K	†2.4meg	18K	FIL
V3	12BH7A	†12K	210K	2700Ω	FIL	FIL	†12K	210K	2700Ω	FIL
V4	ECC83 12AX7	†55Ω	1meg	270K	FIL	FIL	†61Ω	1meg	270K	FIL
V5	6L6GC	NC	FIL	†61Ω	†55Ω	270K	NC	FIL	26Ω	
V6	6L6GC	NC	FIL	†55Ω	†61Ω	270K	NC	FIL	33Ω	
V7	ECC82 12AU7	†37K	†210K	18K	FIL	FIL	†40K	†2.4meg	18K	FIL
V8	12BH7A	†12K	210K	2700Ω	FIL	FIL	†12K	210K	2700Ω	FIL
V9	ECC83 12AX7	†55Ω	1meg	270K	FIL	FIL	†61Ω	1meg	270K	FIL
V10	6L6GC	NC	FIL	†61Ω	†55Ω	270K	NC	FIL	26Ω	
V11	6L6GC	NC	FIL	†55Ω	†61Ω	270K	NC	FIL	33Ω	

† MEASURED FROM OUTPUT OF M1. NC NO CONNECTION

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common ground.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance of component values makes possible a variation of ±15% in voltage and resistance readings.
6. All controls at minimum, proper output load connected.

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McINTOSH
MODEL MC-240

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS (cont)

ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS
R41	18K 1W			
R42	2.2meg			
R43	2.2meg			
R44	220K			
R45	220K			
R46	2700Ω 1W			
R47	12K 2W			
R48	12K 2W			
R49	1meg			
R50	1meg			
R51	56K			

ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS
R52	56K			
R53	56K			
R54	56K			
R55	100K 1W			
R56	100K 1W			
R57	10K 2W			
R58	79Ω@25°C			
R59	6800Ω 2W			
R60	100K			
R61	56K			

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		McIntosh PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	
L1	RF Choke(1.5uh)		BC-562	4604	RTC-8516	T856	
L2	RF Choke(2.7uh)		SW-630	4606	RTC-8517	T857	
L3	RF Choke(1.5uh)		BC-562	4604	RTC-8516	T856	
L4	RF Choke(2.7uh)		SW-630	4606	RTC-8517	T857	

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000 ∿)	McIntosh PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
L5	.220A	30Ω	1HY	L-106-114	C-4084	C-2343①		C-17X	① Drill new mounting hole(s).

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	McIntosh PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	125V Tap @117V@ 1.7A	160V@ .8A AC	6.3V@ 6.3A	T-106-115					
	SEC. 3	SEC. 4	SEC. 5						
	6.3V	115V@ .005A DC							

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.[1]	SEC.[1]	McIntosh PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	1000Ω CT Tap@ 600Ω CT	16Ω Tap@ 8Ω, 4Ω						
	PRI.2	SEC.2						
	1000Ω CT	18Ω						
	PRI.1	SEC.1						
T3	1000Ω CT Tap@ 600Ω CT	16Ω Tap@ 8Ω, 4Ω						
	PRI.2	SEC.2						
	1000Ω CT	18Ω						

POWER RECTIFIERS

ITEM No.	RATING	REPLACEMENT DATA			NOTES
	CURRENT (Measured)	Mc Intosh PART No.	RCA PART No.	SARKES TARZIAN PART No.	
M1	.220A		1N1763 †	F6 †	* Selenium † Silicon
M2	.220A		1N1763 †	F6 †	
M3	.005A	*		10 *	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			Mc Intosh PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M4	3AG	3.2A 125V S/B			31303.2 (3AG 3 2/10A 125V S/B)	342001	MDL 3 2/10	HKP
M5	3AG	3A 250V			312003 (3AG 3A 250V)	356001	AGC 3	4405

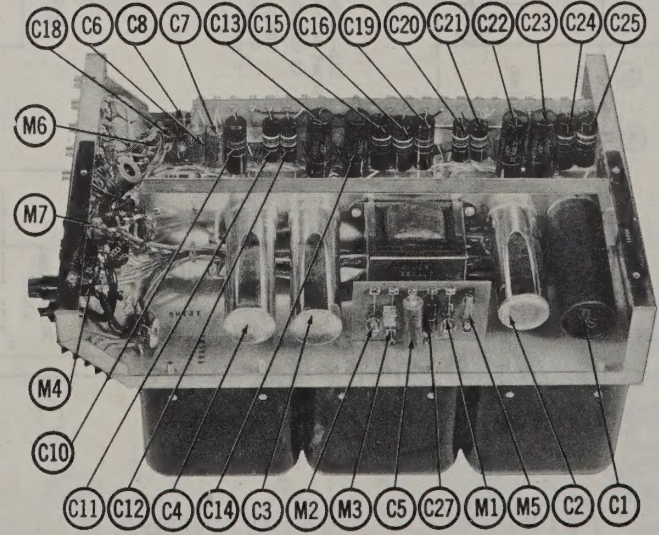
MISCELLANEOUS

ITEM No.	PART NAME	Mc Intosh PART No.	NOTES
M6	Switch		Input Selector (Rotary Wafer Type)
M7	Switch		117–125VAC Selector (SPST Slide Type)

WIRING DATA

General-use Unshielded Hook-up Wire ..... Use BELDEN No. 8530 (Solid) Available in Ten Colors
8524 (Stranded) Available in Ten Colors

Power Cord ..... Use BELDEN No. 1765-B (6 Ft. Length)
1725-K (7½ Ft. Length)

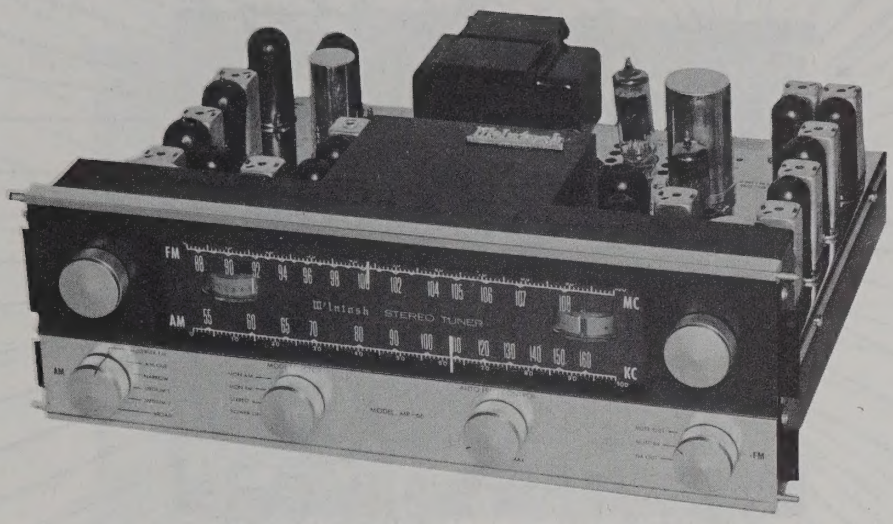


CHASSIS–BOTTOM VIEW

PHOTOFACT® Folder

McINTOSH MODEL MR-66

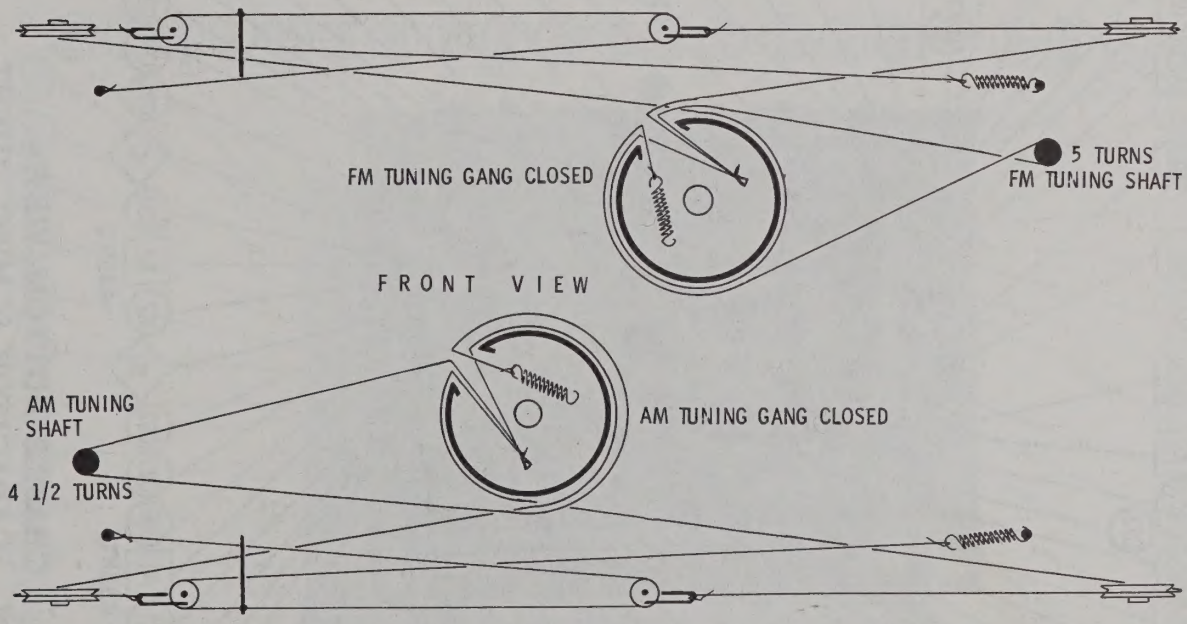
McINTOSH MODEL MR-66



McINTOSH MODEL MR-66

TRADE NAME	McIntosh Model MR-66		
MANUFACTURER	McIntosh Laboratory, Inc., 2 Chambers Street, Binghamton, N. Y.		
TYPE SET	AC Operated 18 Tube FM-AM Tuner		
POWER SUPPLY	110 – 120 Volts AC, 60 Cycles	RATING	82 Watts, .76 Amp. @117 Volts AC
TUNING RANGES – BROADCAST	540 – 1600KC	FREQ. MOD.	88 – 108MC

DIAL CORD STRINGING



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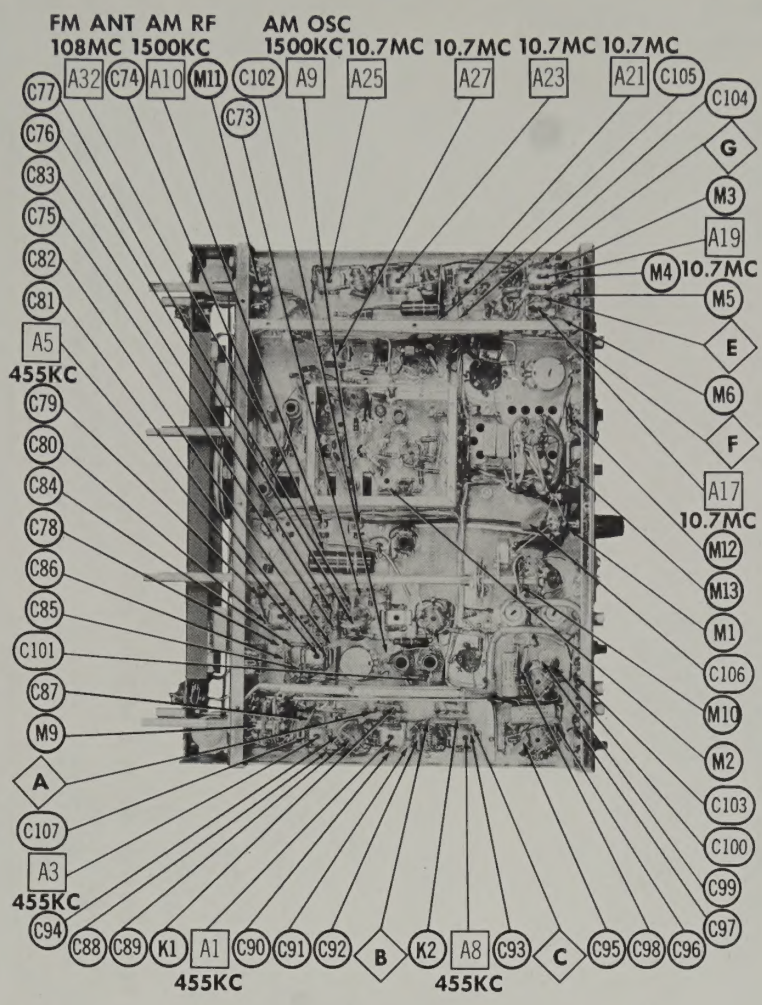
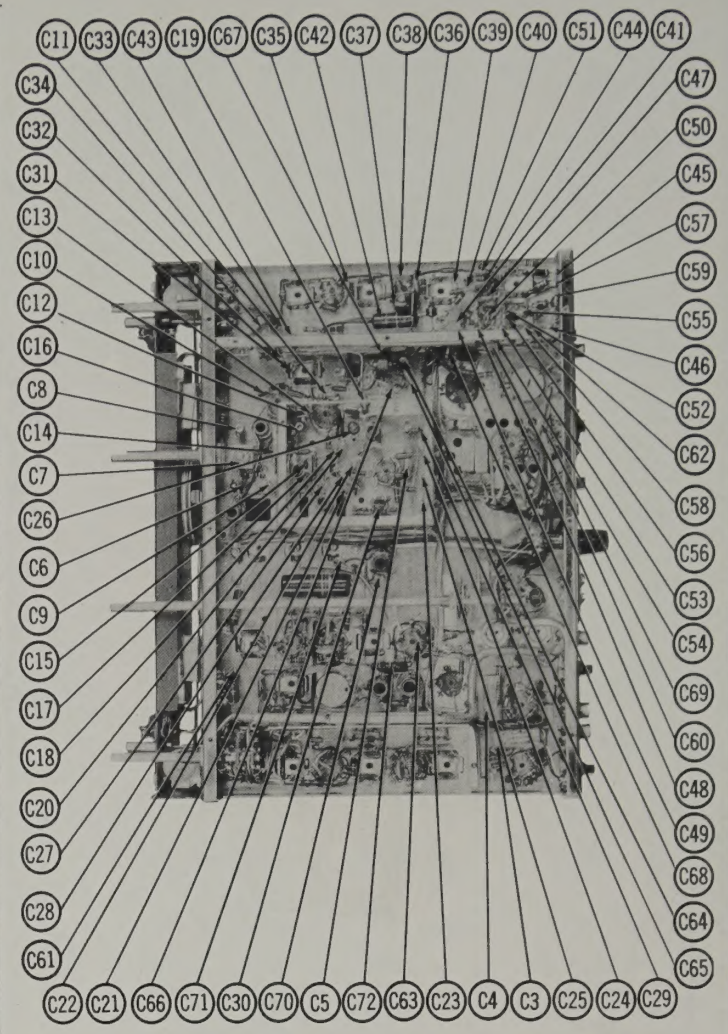
KL819

SET 558 FOLDER 11



CHASSIS BOTTOM VIEW-
ALIGN., CAPACITOR & MISC. IDENT.



CHASSIS BOTTOM VIEW-CAPACITOR IDENT.

PARTS LIST AND DESCRIPTIONS (Continued)

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA: AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C36	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C37	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C38	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C39	2.2 10%		NPO-SI 2.2	TCZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C40	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C41	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C42	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C43	.001		EF-001	MFT-1000		CCF-102	CT280A	
C44	.005		BPD-005	DD-502	BYA10D5	CCD-502 *	B-250	5HK-D50
C45	47 N470							
C46	100		EF-0001	MFT-100				
C47	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C48	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C49	.001		EF-001	MFT-1000		CCF-102	CT280A	
C50	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C51	.005	(.01) †	BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C52	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C53	.001		EF-001	MFT-1000		CCF-102	CT280A	
C54	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C55	6.8 NPO 5%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C56	10 NPO 5%		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100 *	CNO-410	10TCC-Q10
C57	47 N470							
C58	.001		EF-001	MFT-1000		CCF-102	CT280A	
C59	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C60	100		EF-0001	MFT-100				
C61	470 2%					VCM-20-471G	MCE244	
C62	.001		EF-001	MFT-1000		CCF-102	CT280A	
C63	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C64	470		DI-470	DD-471	BYA10T47	CCD-471	B-347	10TS-T47
C65	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C66	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C67	100		DI-100	DD-101	L10T1	CCD-101	GP310	10TS-T10
C68	.047 200V		P288N-047	DD-503	CUB2S47	4DP-3-473 *	GEM-4147	2TM-S47
C69	47 N470							
C70	2.2 10%		NPO-SI 2.2	TCZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C71	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C72	.015 200V		P288N-015	DD-153	CUB4S15	4DP-1-153	GEM-415	4TM-S15
C73	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C74	.47 200V		P288N-47		CUB4P47	2DP-5-474	GEM-2047	2TM-P47
C75	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C76	.02	(.01) †	BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C77	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C78	15 N150 5%							10TCP-Q15
C79	.0033 200V		P288N-0033	D6-332	CUB6D33	6DP-1-332 *	GEM-6233	6TM-D33
C80	47 N470							
C81	470 5%	Note 1	1469-00047		5R5T47	CM-19B-471J	MCJ244	MS-347
C82	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C83	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C84	470 5%		1469-00047		5R5T47	CM-19B-471J	MCJ244	MS-347
C85	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C86	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C87	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C88	470 5%		1469-00047		5R5T47	CM-19B-471J	MCJ244	MS-347
C89	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C90	2.7 10%				C10V3C			10TCC-V27
C91	.47mmf 10%							
C92	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C93	2.2 10%		NPO-SI 2.2	TCZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C94	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C95	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C96	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C97	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C98	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C99	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C100	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C101	.0047 5%		1464-0047		1R5D47	CM-20B-472J	MCJ464	MS-247
C102	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C103	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C104	.001		EF-001	MFT-1000		CCF-102	CT280A	
C105	.001		EF-001	MFT-1000		CCF-102	CT280A	
C106 A	.01		BPD-2X01	DD3-103	BYD60S1	CCD-103	UAC-2X110	5HK-2S10
B	.01					CCD-102		

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA: AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C107	470 5%	Note 1	1469-00047		5R5T47	CM-19B-471J	MCJ244	MS-347

† Alternate Value.
Note 1. Not used in some versions.
* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

CONTROLS

ITEM No.	RATING: RESISTANCE	RATING: WATTS	REPLACEMENT DATA: McINTOSH PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
R1A	500K	½	R50001-3	B-59	A47-500K-S	Q11-133	U50	Auto Freq. Control
B	Shaft			Not Req.	FS-3	Not Req.	Not Req.	
R2A	20K	½	R50000-5	AB-25	A47-25K-W	B13-120	U24	AM Level
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	
R3A	20K	½	R50000-5	AB-25	A47-25K-W	B13-120	U24	FM Level
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	
R4A	10K	½	R50000-7	AB-14	A47-10K-S	B11-116	SU-20	Squelch
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	
R5A	7500Ω	½	R50000-6	AB-13	A47-7500-S	B11-115	SU-20	10KC Whistle Filter
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	
R6	250Ω	2(WW)			39-300	112-300	FL-250	AM Meter Adjust
R7	5000Ω	2(WW)			39-5000	112-5000	FL-5K	FM Meter Adjust

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

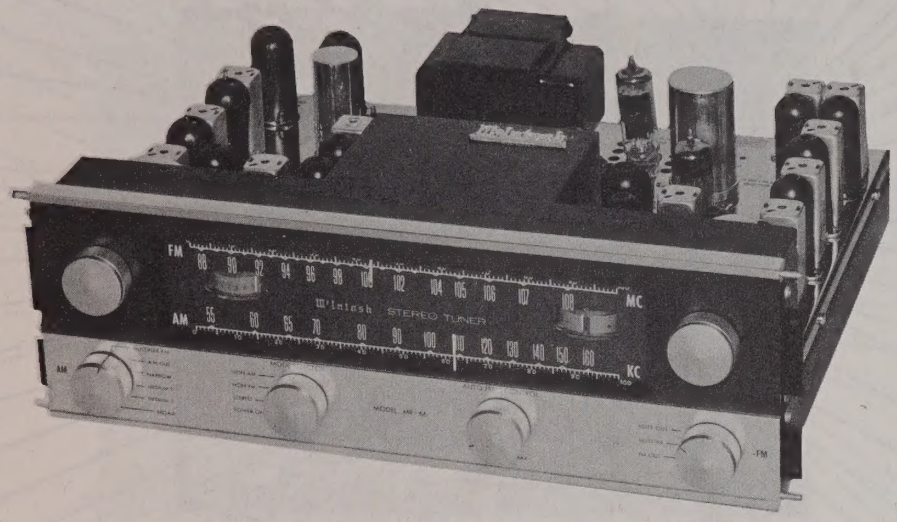
ITEM No.	RATING	REPLACEMENT DATA: IRC PART No.	WORKMAN TV PART No.	REMARKS
R8	470Ω			
R9	68Ω			
R10	470K			
R11	470K			
R12	1000Ω			
R13	100K			
R14	330K			
R15	1meg			
R16	100K			
R17	680K			
R18	22K			
R19	10Ω			
R20	220K			
R21	220K			
R22	220Ω			
R23	1000Ω			
R24	10K			
R25	470K			
R26	220K			
R27	220Ω			
R28	220Ω			
R29	220Ω			
R30	100K			
R31	220Ω			
R32	100K			
R33	47K			
R34	4700Ω			
R35	220Ω			
R36	47K			
R37	47K			
R38	10K			
R39	1meg			
R40	2.2meg			
R41	68K			
R42	1000Ω			

ITEM No.	RATING	REPLACEMENT DATA: IRC PART No.	WORKMAN TV PART No.	REMARKS
R43	47K			
R44	100K			
R45	470Ω			
R46	470K			
R47	220K			
R48	22K			
R49	1000Ω			
R50	18K			
R51	100K			
R52	10K			
R53	10K			
R54	68Ω			
R55	3300Ω			
R56	150K			
R57	1meg			
R58	220K			
R59	2200Ω			
R60	2700Ω			
R61	33K			
R62	1meg			
R63	15K			
R64	390Ω			
R65	15Ω			
R66	10K			
R67	470K			
R68	4700Ω			
R69	68Ω			
R70	220K			
R71	10Ω			
R72	22K			
R73	470Ω			
R74	470Ω			
R75	470K			
R76	1000Ω			
R77	330Ω			

PHOTOFACT® Folder

McINTOSH MODEL MR-66

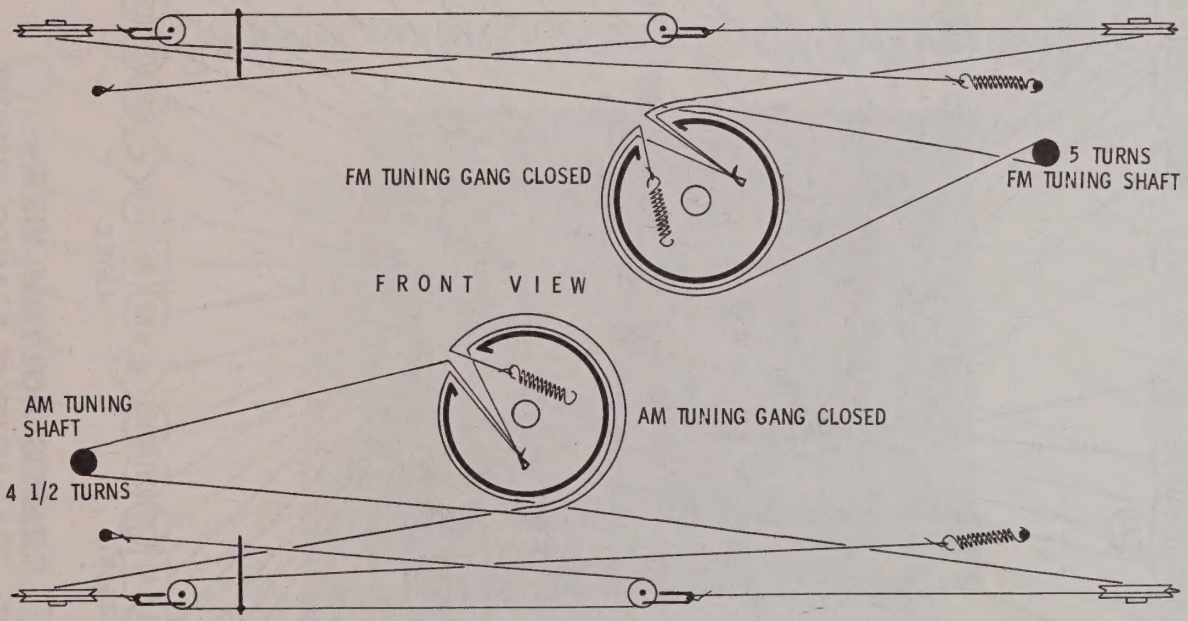
McINTOSH MODEL MR-66



TRADE NAME	McIntosh Model MR-66		
MANUFACTURER	McIntosh Laboratory, Inc., 2 Chambers Street, Binghamton, N. Y.		
TYPE SET	AC Operated 18 Tube FM-AM Tuner		
POWER SUPPLY	110 – 120 Volts AC, 60 Cycles	RATING	82 Watts, .76 Amp. @117 Volts AC
TUNING RANGES – BROADCAST	540 – 1600KC	FREQ. MOD.	88 – 108MC

McINTOSH MODEL MR-66

DIAL CORD STRINGING



HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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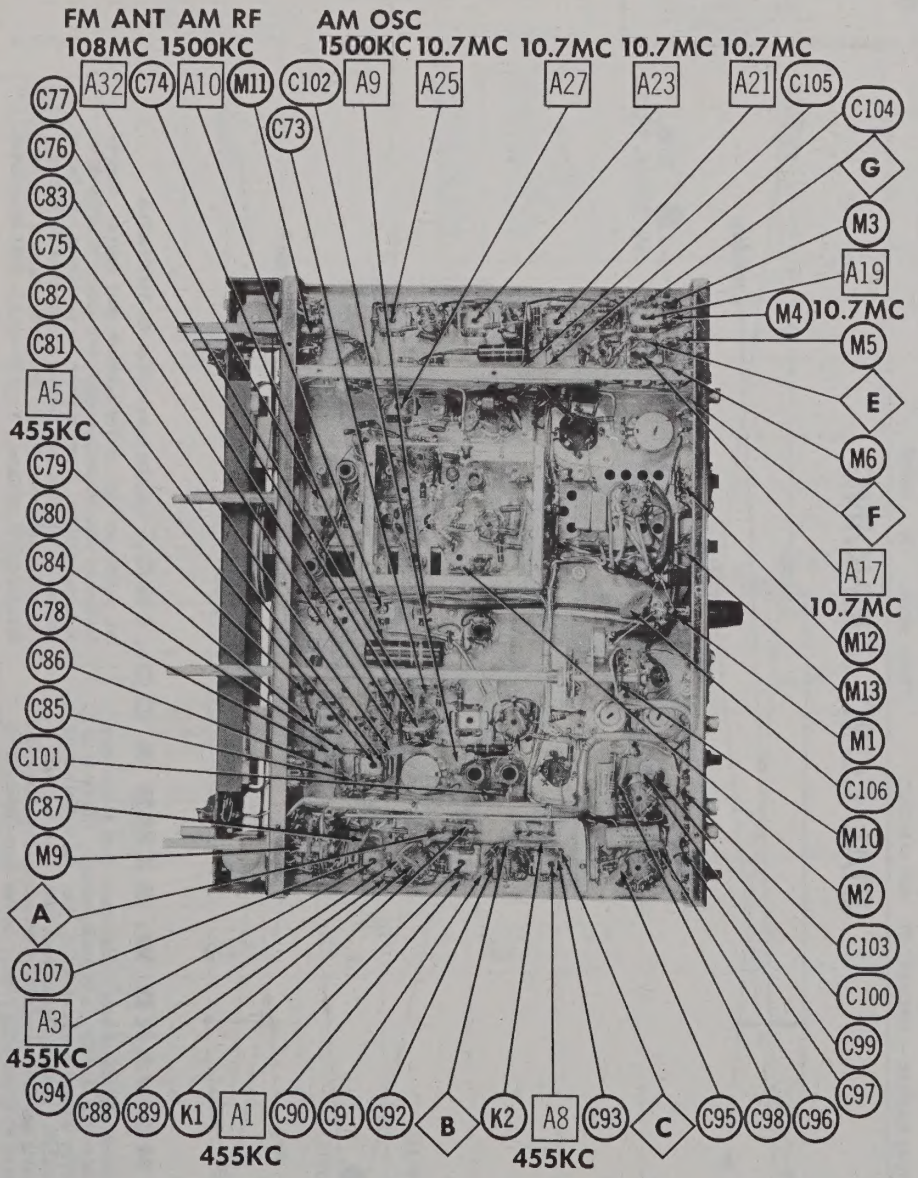
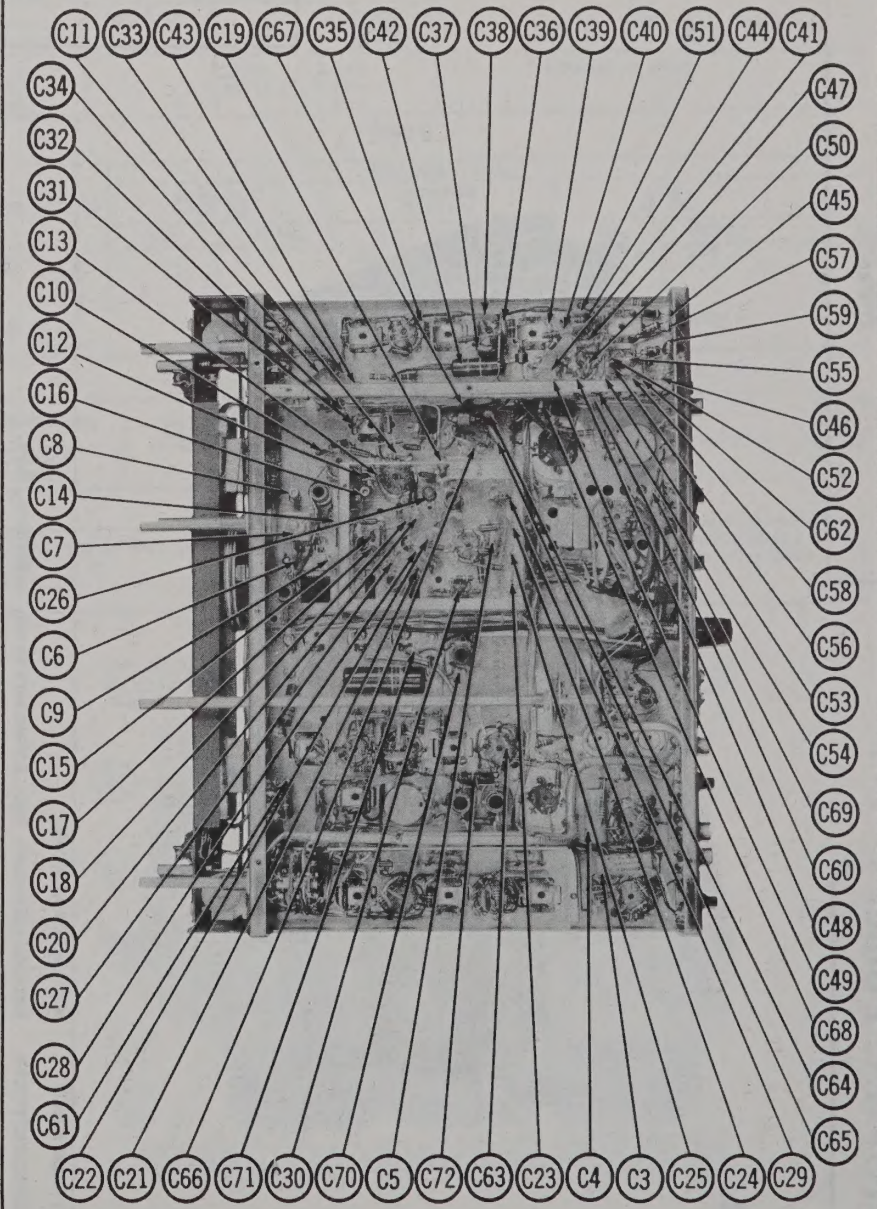
KL819

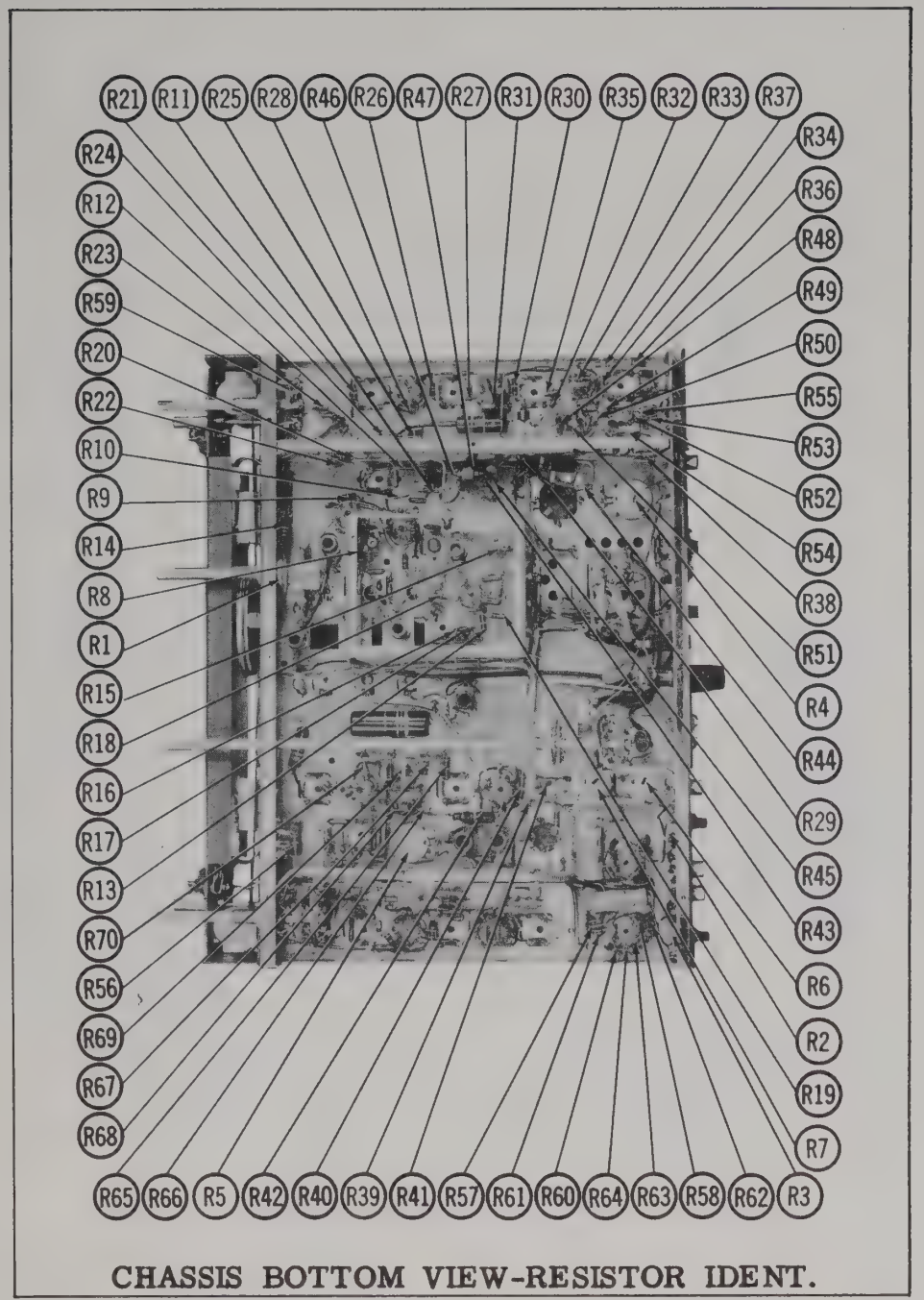
SET 558 FOLDER 11



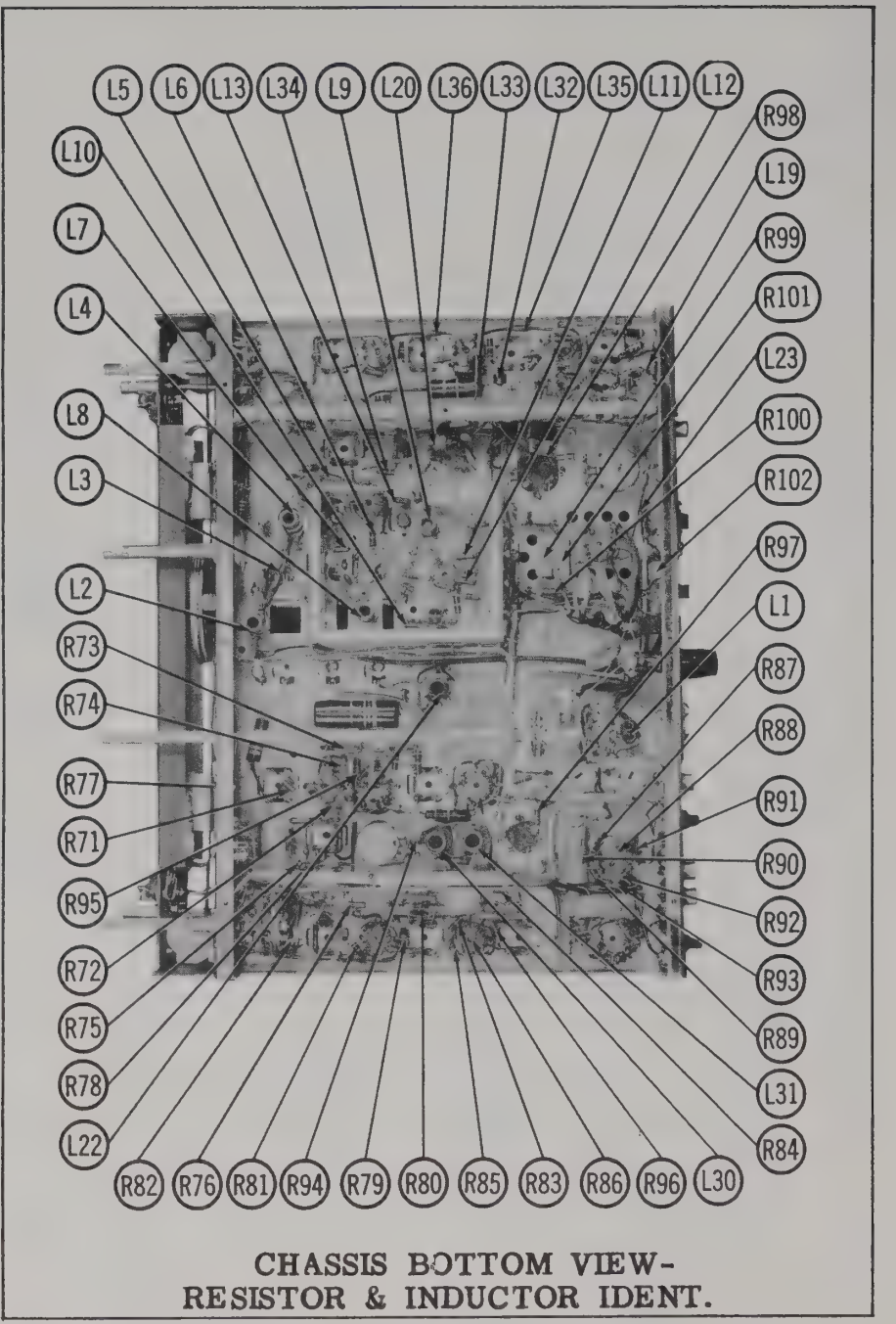
CHASSIS BOTTOM VIEW-
ALIGN., CAPACITOR & MISC. IDENT.



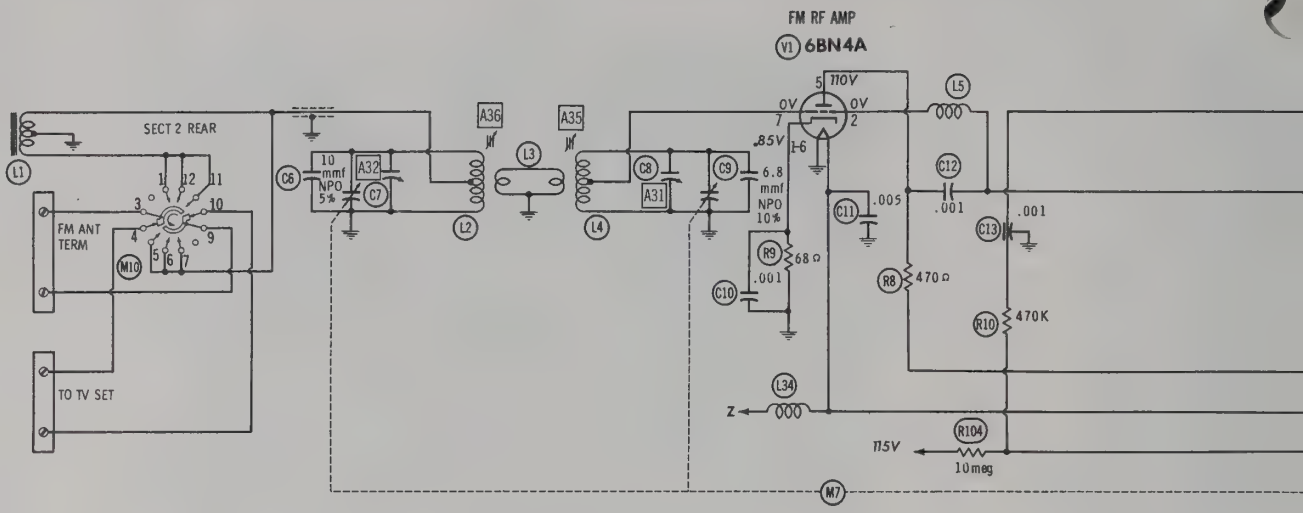
CHASSIS BOTTOM VIEW-CAPACITOR IDENT.

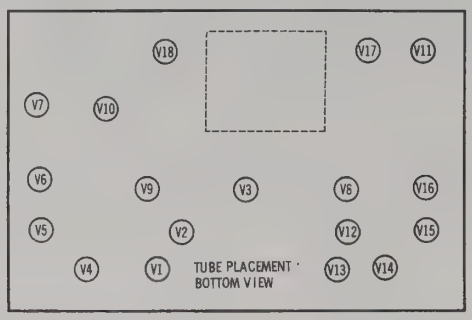


CHASSIS BOTTOM VIEW-RESISTOR IDENT.

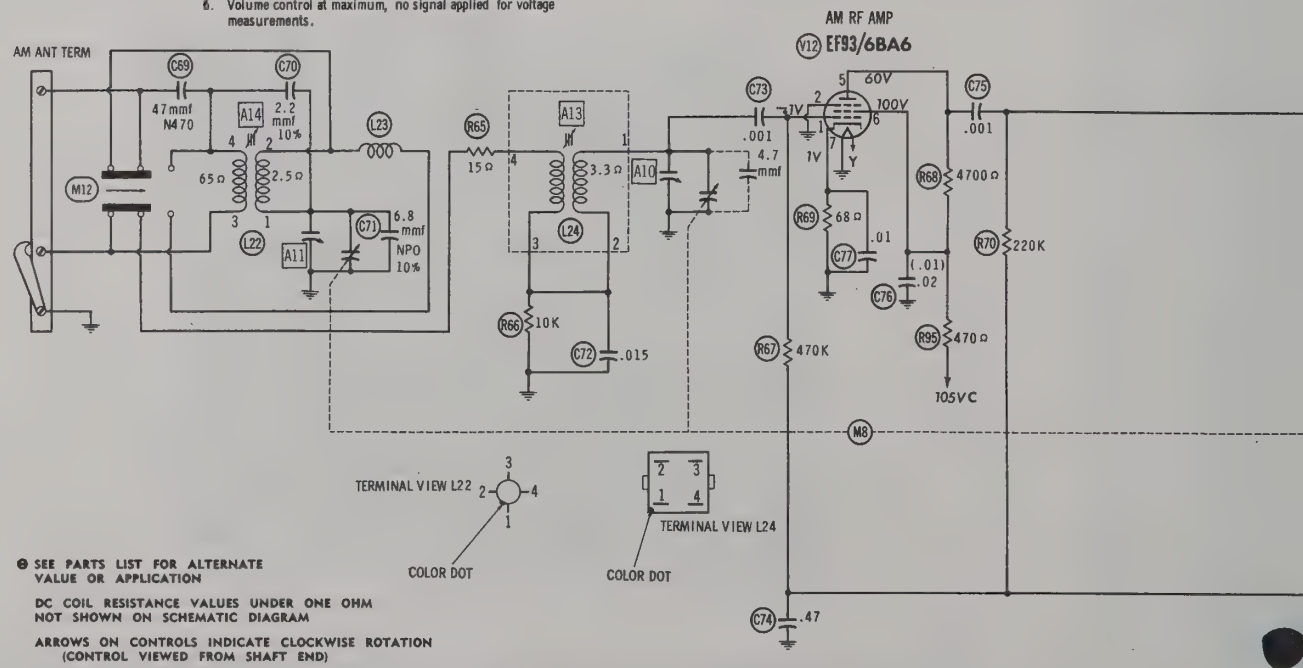


CHASSIS BOTTOM VIEW-
RESISTOR & INDUCTOR IDENT.





1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common ground.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.



⊖ SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)

A PHOTOFACT STANDARD NOTATION SCHEMATIC

© Howard W. Sams & Co., Inc. 1961

NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

FM ALIGNMENT INSTRUCTIONS

FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM — MODE SELECTOR IN MON. FM POSITION

AFC fully counterclockwise.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
6.	High side thru .01mfd to point Ⓓ. Low side to chassis.	10.7MC (Unmod.)	(FM) Point of non-interference.	DC probe thru 100K to point Ⓔ. Common to chassis.	A17	Adjust for maximum deflection.
7.	"	"	"	DC probe to point Ⓕ. Common to chassis.	A18	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
8.	"	"	"	DC probe thru 100K to point Ⓖ. Common to chassis.	A19	Adjust for maximum deflection.
9.	"	"	"	Not Used.	R7	Short point Ⓗ to chassis. Adjust to center FM Tuning meter.
10.	"	"	"	"	A20	Remove short. Adjust to center FM tuning meter.
11.	High side thru .01mfd to pin 7 (grid) of FM Mixer. Low side to chassis.	"	"	DC probe to point Ⓓ. Common to chassis.	A21, A22, A23, A24, A25, A26, A27, A28	Adjust for maximum deflection.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE — MODE SELECTOR IN MON. FM POSITION

AFC fully counterclockwise.
Use frequency modulated signal with 60∿ modulation and 450KC sweep. Use 120∿ sawtooth voltage in scope for horizontal deflection.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
6.	High side thru .01mfd to point Ⓓ. Low side to chassis.	10.7MC (450KC Swp)	(FM) Point of non-interference.	Vert. amp. thru 100K to point Ⓔ. Low side to chassis.	A17	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown.
7.	"	"	"	Vert. Amp. to point Ⓕ. Low side to chassis.	A18	Adjust to place marker at the center of crossover lines similar to Fig. 2. SLIGHTLY retouch A17 for maximum amplitude and straightness of cross-over lines.
8.	"	"	"	Vert. Amp. thru 100K to point Ⓖ. Common to chassis.	A19	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown.
9.	"	"	"	Not Used.	R7	Short point Ⓗ to chassis. Adjust to center FM Tuning meter.
10.	"	"	"	"	A20	Remove short. Adjust to center FM tuning meter.
11.	High side thru .01mfd to pin 7 (plate) of FM Mixer. Low side to chassis.	"	"	Vert. Amp. thru 100K to point Ⓓ. Low side to chassis.	A21, A22, A23, A24, A25, A26, A27, A28	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown.

FM RF ALIGNMENT — MODE SELECTOR IN MON. FM POSITION

AFC fully counterclockwise.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
12.	Across FM antenna terminals with 120Ω in each lead.	108MC (Unmod.)	(FM) 108MC	DC probe to point Ⓓ. Common to chassis.	A29, A30, A31, A32	Adjust for maximum deflection.
13.	"	88MC	88MC	"	A33, A34, A35, A36	Adjust for maximum deflection. Repeat steps 12 and 13.

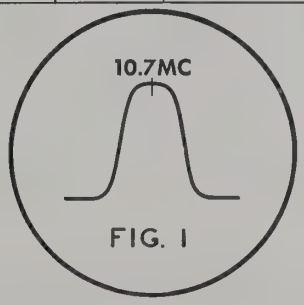


FIG. 1

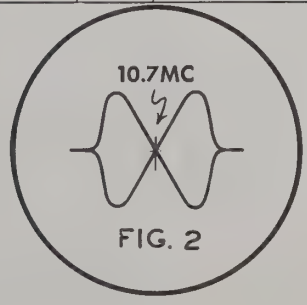
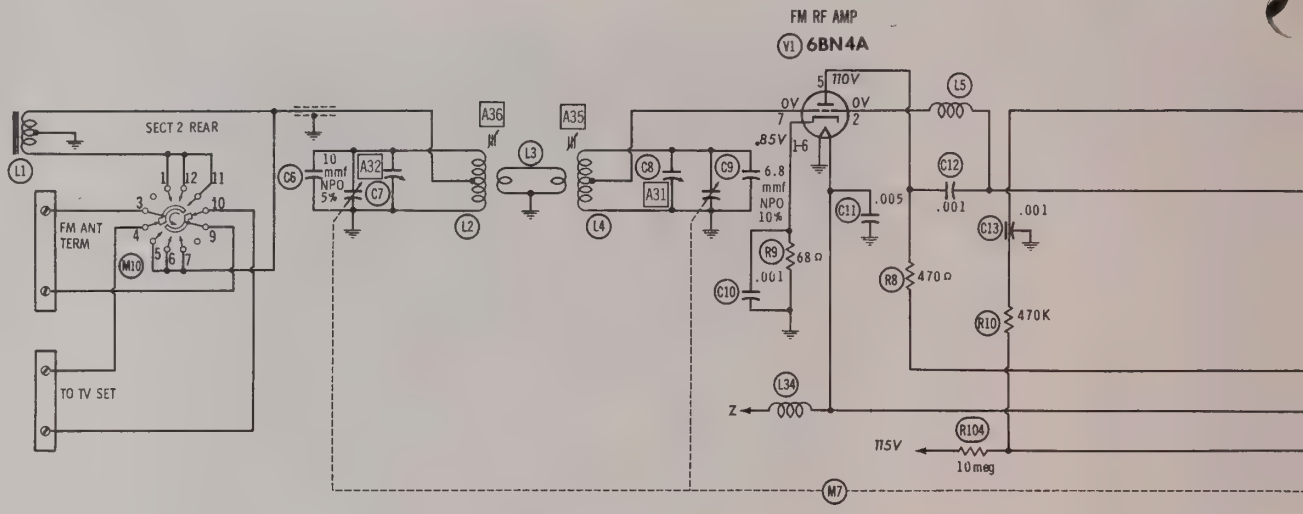
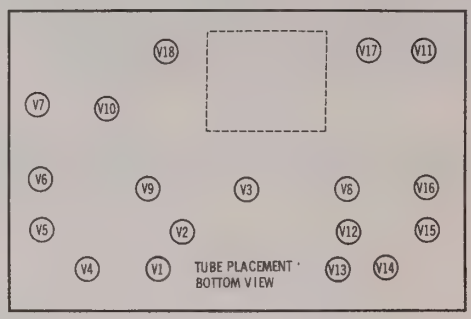
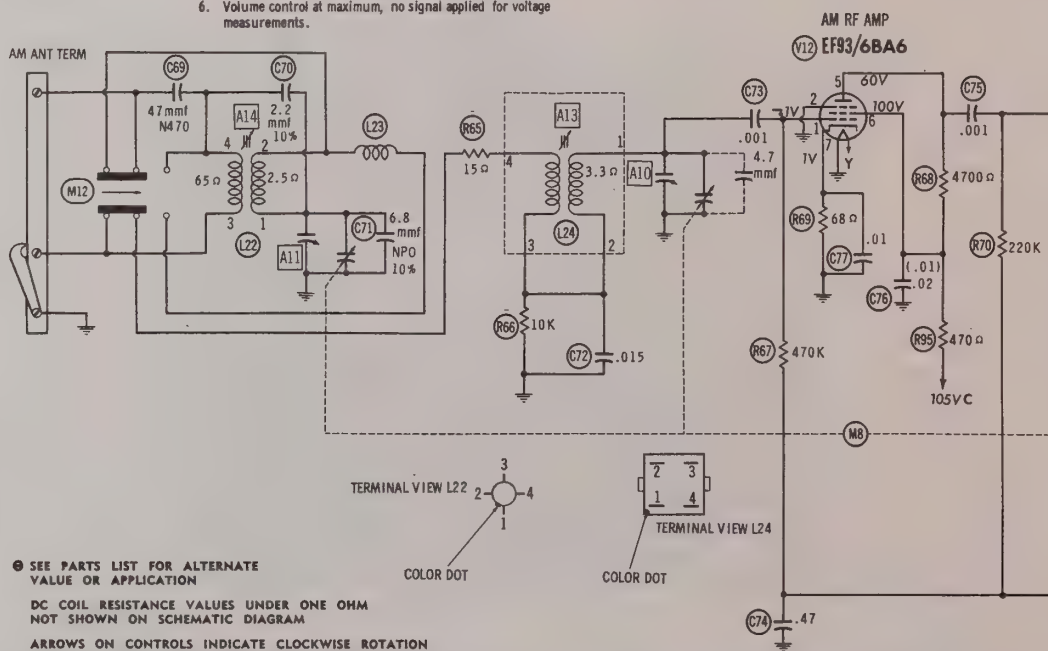


FIG. 2





1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common ground.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.



● SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)

A PHOTOFACT STANDARD NOTATION SCHEMATIC

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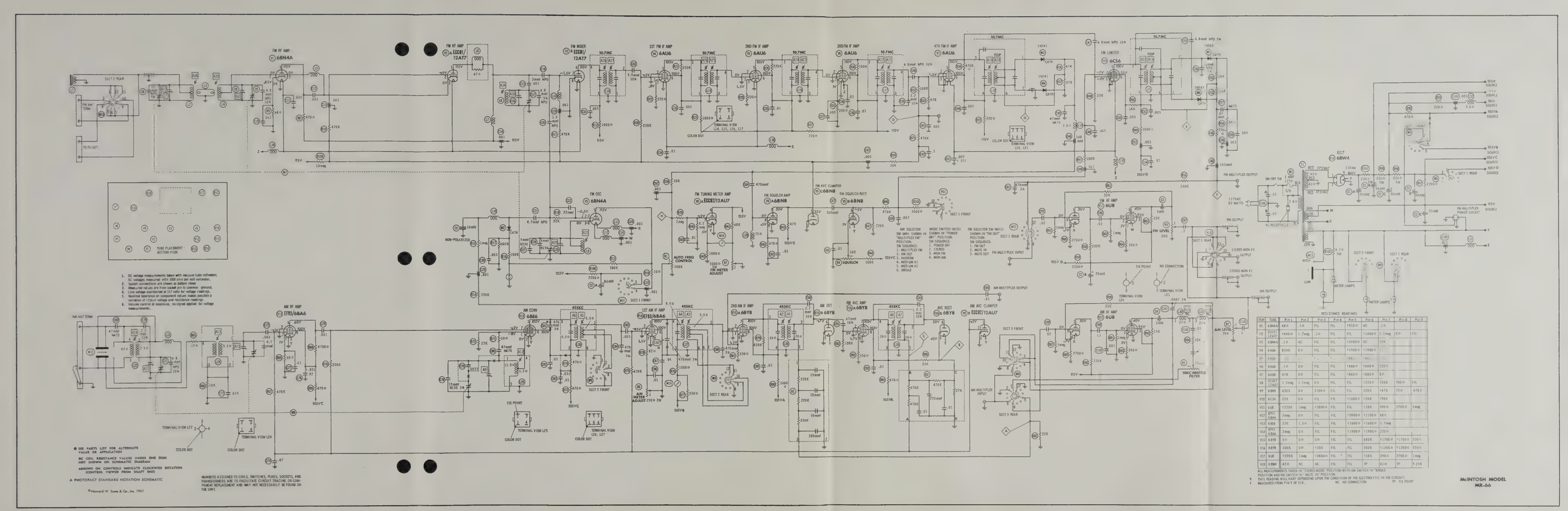

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohms per volt voltmeter.
2. Socket connections are shown as bottom views
3. Measured values are from socket pin to common ground.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of ±5% in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

● SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)

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NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

RESISTANCE READINGS

Sym	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6BN4A	68Ω	.1Ω	FIL	FIL	190Ω	NC	.1Ω		
V2	ECC81/12AT7	9440Ω	1.75mg	.1Ω	FIL	FIL	1140Ω	1.1mg	0Ω	FIL
V3	6BN4A	.1Ω	NC	FIL	FIL	124Ω	NC	72Ω		
V4	6AU6	850K	0Ω	FIL	FIL	119Ω	119Ω	NC		
V5	6AU6	"	"	"	"	106Ω	106Ω	NC		
V6	6AU6	.1Ω	0Ω	FIL	FIL	166Ω	166Ω	220Ω		
V7	6AU6	47K	0Ω	FIL	FIL	188Ω	188Ω	0Ω		
V8	ECC82/12AU7	1.5mg	1.1mg	0Ω	FIL	FIL	122Ω	750Ω	750Ω	FIL
V9	6BN8	630K	0Ω	310Ω	FIL	FIL	220K	147K	75Ω	470Ω
V10	6CS6	22K	0Ω	FIL	FIL	116Ω	124K	790Ω		
V11	6U8	1220K	1mg	12800Ω	FIL	FIL	118K	990Ω	2700Ω	1mg
V12	6AL5	2mg	0Ω	FIL	FIL	158Ω	1100Ω	66Ω		
V13	6BY8	22K	1.5Ω	FIL	FIL	116Ω	116Ω	1.7mg		
V14	ECC82/12AU7	2mg	0Ω	FIL	FIL	119Ω	119Ω	220Ω		
V15	6BW4	5Ω	0Ω	0Ω	FIL	FIL	680K	1170Ω	1170Ω	330Ω
V16	6BW8	100K	0Ω	120K	FIL	FIL	500K	1200Ω	1200Ω	330Ω
V17	6U8	1220K	1mg	12800Ω	FIL	*	FIL	118K	990Ω	2700Ω	1mg
V18	6BW4	43Ω	NC	NC	FIL	FIL	TP	41Ω	TP	9.25K

ALL MEASUREMENTS TAKEN IN "STEREO MODE" POSITION WITH AM SWITCH IN "BROAD POSITION AND FM SWITCH IN "MUTE IN" POSITION

† THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.

* MEASURED FROM PIN 9 OF V13. NC: NO CONNECTION TP: TIE POINT

McINTOSH MODEL MR-66

PARTS LIST AND DESCRIPTIONS

TUBES

• GENERAL ELECTRIC • RAYTHEON • SYLVANIA •

ITEM No.	USE	TYPE
V1	FM RF Amplifier	6BN4A
V2	FM RF Amp. -FM Mixer	ECC81/12AT7
V3	FM Osc.	6BN4A
V4	1st FM IF Amp.	6AU6
V5	2nd FM IF Amp.	6AU6
V6	3rd FM IF Amp.	6AU6
V7	4th FM IF Amp.	6AU6
V8	FM Tuning Meter Amp. -AM AVC Clamper	ECC82/12AU7
V9	FM Squelch Amp. -FM Squelch Rect. -FM AVC Clamper	6BN8
V10	FM Limiter	6CS6
V11	FM AF Amp.	6U8
V12	AM RF Amp.	EF93/6BA6
V13	AM Converter	6BE6
V14	1st AM IF Amp.	EF93/6BA6
V15	2nd AM IF Amp. -AM Det.	6BY8
V16	AM AVC Amp. -AVC Rect.	6BY8
V17	AM AF Amp.	6U8
V18	Rectifier	6BW4

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	RATING VOLT.	REPLACEMENT DATA McIntosh PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1A	▬50	200		AFH4-01-60			WP412.8	TMQ-4104	
B	■50	200							
C	▲50	200							
D	50	200							
C2A	■80	200		AFH2-08	XB0091		FP318.7	TMD-2075	TVL-2515
B	▲20	150		PRS1590	BR8035		TC59	TD-80-350	TVA-1716
C	20	150							
C3	1	200		PRS1700	BR145	QT1-1	TT250X1	TD-2-450	TVA-1700
C4	1	200		PRS1700	BR145	QT1-1	TT250X1	TD-2-450	TVA-1700
C5	10	25NP		PRS7315	BBR10-150	NPQT-3	TCN5010		TVANS-1204.1*

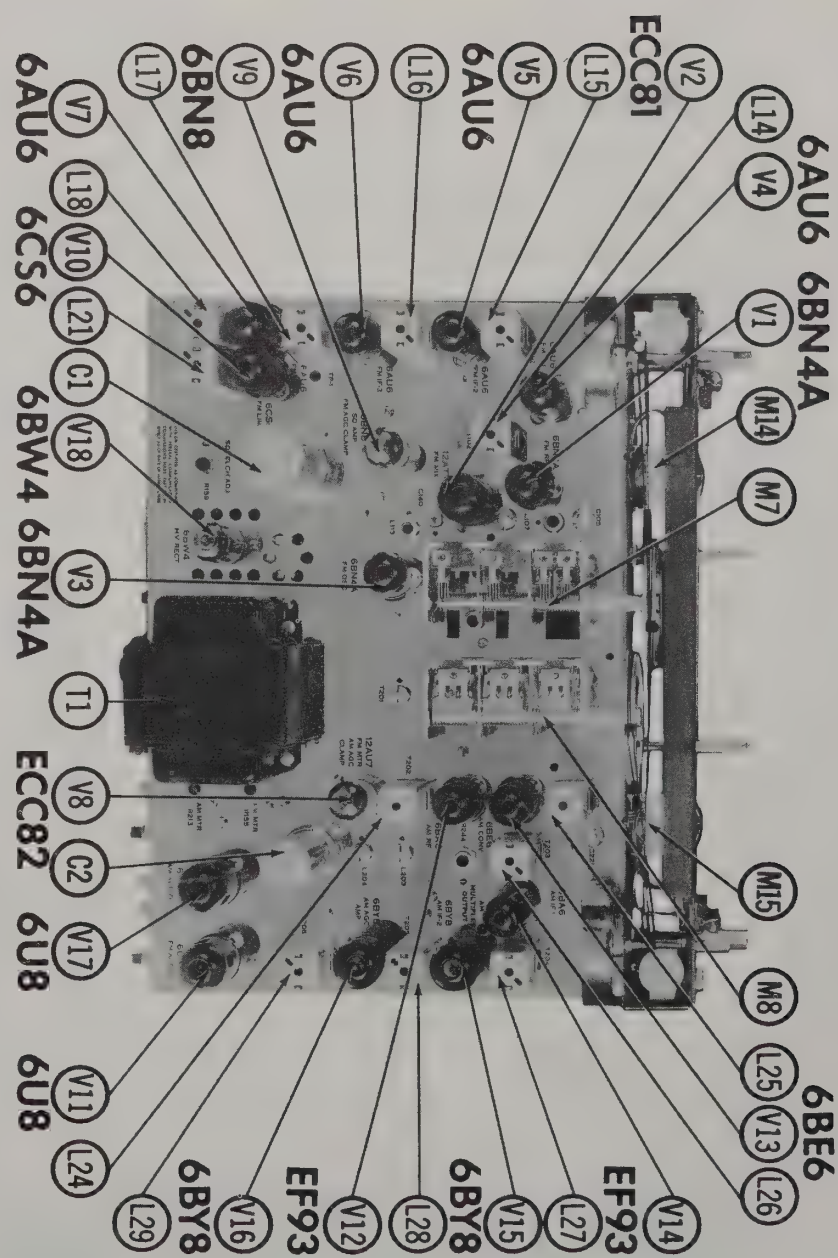
* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REMARKS	REPLACEMENT DATA AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C6	10 NPO 5%		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C7								
C8								
C9	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-468	10TCC-V68
C10	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C11	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C12	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C13	.001		EF-001	MFT-1000		CCF-102	CT280A	
C14	.001		EF-001	MFT-1000		CCD-102	CT280A	
C15	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C16								
C17	6.8 NPO 5%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C18	3 NPO		NPO-SI 3.0	TCZ-3R3	C10V3C	CCTO-3R3	CNO-533	10TCC-V33
C19	.001		EF-001	MFT-1000		CCF-102	CT280A	
C20	1.5 NPO		NPO-SI 1.5	TCZ-1R5	C10V15C		CNO-515	10TCC-V15
C21	4.7 NPO		NPO-DI 4.7	DTZ-4R7	C10V47C	CCTO-4R7	CNO-547	10TCC-V47
C22	22 N470					*		
C23	.001		EF-001	MFT-1000		CCF-102	CT280A	
C24	.001		EF-001	MFT-1000		CCF-102	CT280A	
C25	.001		EF-001	MFT-1000		CCF-102	CT280A	
C26								
C27	5 N330					*		
C28	5 N150					*		10TCP-V50
C29	.001		EF-001	MFT-1000		CCF-102	CT280A	
C30	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C31	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C32	3.9 10%				C10V4C			10TCC-V39
C33	.003		DI-3000	DD-302	BYA10D3	CCD-302	GP230	10TS-D30
C34	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C35	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C36	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C37	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C38	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C39	2.2 10%		NPO-SI 2.2	TCZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C40	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C41	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C42	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C43	.001		EF-001	MFT-1000		CCF-102	CT280A	
C44	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C45	47 N470					*		
C46	100		EF-0001	MFT-100				
C47	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C48	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C49	.001		EF-001	MFT-1000		CCF-102	CT280A	
C50	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C51	.005	(.01) †	BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C52	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C53	.001		EF-001	MFT-1000		CCF-102	CT280A	
C54	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C55	6.8 NPO 5%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C56	10 NPO 5%		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C57	47 N470					*		
C58	.001		EF-001	MFT-1000		CCF-102	CT280A	
C59	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C60	100		EF-0001	MFT-100				
C61	470 2%					VCM-20-471G	MCE244	
C62	.001		EF-001	MFT-1000		CCF-102	CT280A	
C63	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C64	470		DI-470	DD-471	BYA10T47	CCD-471	B-347	10TS-T47
C65	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C66	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C67	100		DI-100	DD-101	L10T1	CCD-101	GP310	10TS-T10
C68	.047 200V		P288N-047	DD-503	CUB2S47	4DP-3-473	GEM-4147	2TM-S47
C69	47 N470					*		
C70	2.2 10%		NPO-SI 2.2	TCZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C71	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C72	.015 200V		P288N-015	DD-153	CUB4S15	4DP-1-153	GEM-415	4TM-S15
C73	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C74	.47 200V		P288N-47		CUB4P47	2DP-5-474	GEM-2047	2TM-P47
C75	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C76	.02	(.01) †	BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C77	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C78	15 N150 5%					*		10TCP-Q15
C79	.0033 200V		P288N-0033	D6-332	CUB6D33	6DP-1-332	GEM-6233	6TM-D33
C80	47 N470					*		
C81	470 5%	Note 1	1469-00047		5R5T47	CM-19B-471J	MCJ244	MS-347
C82	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C83	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C84	470 5%		1469-00047		5R5T47	CM-19B-471J	MCJ244	MS-347
C85	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C86	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C87	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C88	470 5%		1469-00047		5R5T47	CM-19B-471J	MCJ244	MS-347
C89	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C90	2.7 10%				C10V3C			10TCC-V27
C91	.47mmf 10%							
C92	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C93	2.2 10%		NPO-SI 2.2	TCZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C94	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C95	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C96	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C97	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C98	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C99	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C100	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C101	.0047 5%		1464-0047		1R5D47	CM-20B-472J	MCJ464	MS-247
C102	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C103	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C104	.001		EF-001	MFT-1000		CCF-102	CT280A	
C105	.001		EF-001	MFT-1000		CCF-102	CT280A	
C106A	.01		BPD-2X01	DD3-103	BYD60S1	CCD-103	UAC-2X110	5HK-2S10
B	.01					CCD-102		

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C107	470 5%	Note 1	1469-00047		5R5T47	CM-19B-471J	MCJ244	MS-347

† Alternate Value.
Note 1. Not used in some versions.
* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESISTANCE	WATTS	McINTOSH PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R1A	500K	½	R50001-3	B-59	A47-500K-S	Q11-133	U50	Auto Freq. Control
B	Shaft			Not Req.	FS-3	Not Req.	Not Req.	
R2A	20K	½	R50000-5	AB-25	A47-25K-W	B13-120	U24	AM Level
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	
R3A	20K	½	R50000-5	AB-25	A47-25K-W	B13-120	U24	FM Level
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	
R4A	10K	½	R50000-7	AB-14	A47-10K-S	B11-116	SU-20	Squelch
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	
R5A	7500Ω	½	R50000-6	AB-13	A47-7500-S	B11-115	SU-20	10KC Whistle Filter
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	
R6	250Ω	2(WW)			39-300	112-300	FL-250	AM Meter Adjust
R7	5000Ω	2(WW)			39-5000	112-5000	FL-5K	FM Meter Adjust

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS			IRC PART No.	WORKMAN TV PART No.	REMARKS
R8	470Ω				R43	47K			
R9	68Ω				R44	100K			
R10	470K				R45	470Ω			
R11	470K				R46	470K			
R12	1000Ω				R47	220K			
R13	100K				R48	22K			
R14	330K				R49	1000Ω			
R15	1meg				R50	18K			
R16	100K				R51	100K			
R17	680K				R52	10K			
R18	22K				R53	10K			
R19	10Ω				R54	68Ω			
R20	220K				R55	3300Ω			
R21	220K				R56	150K			
R22	220Ω				R57	1meg			
R23	1000Ω				R58	220K			
R24	10K				R59	2200Ω			
R25	470K				R60	2700Ω			
R26	220K				R61	33K			
R27	220Ω				R62	1meg			
R28	220Ω				R63	15K			
R29	220Ω				R64	390Ω			
R30	100K				R65	15Ω			
R31	220Ω				R66	10K			
R32	100K				R67	470K			
R33	47K				R68	4700Ω			
R34	4700Ω				R69	68Ω			
R35	220Ω				R70	220K			
R36	47K				R71	10Ω			
R37	47K				R72	22K			
R38	10K				R73	470Ω			
R39	1meg				R74	470Ω			
R40	2.2meg				R75	470K			
R41	68K				R76	1000Ω			
R42	1000Ω				R77	330Ω			

AM ALIGNMENT INSTRUCTIONS

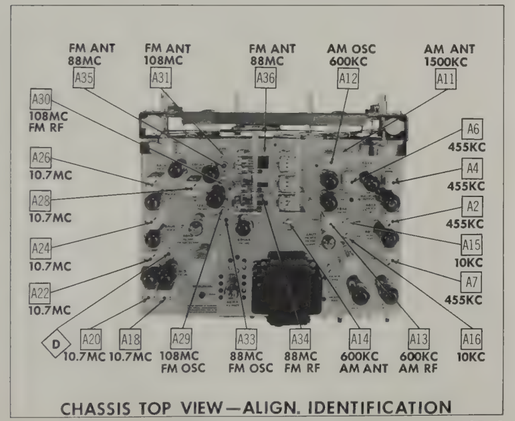
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use only enough generator output to provide a usable indication.
Suggested Alignment Tools:
A1 thru A8 and A31 thru A28, A33. GENERAL CEMENT #5097, 8727 WALSCO #2515
A9, A10, A11, A30, A31, A32..... GENERAL CEMENT #5004, 5008, 5009 WALSCO #2520
A12, A13, A17 thru A20, A34, A35, A36.. GENERAL CEMENT #8282, 8606, 8606-1, 9295, 9440 WALSCO #3528, 3543, 3544, 3545
A14, A15, A16..... GENERAL CEMENT #5003, 8271, 8275, 8276, 8609, 8721, 8722, 9150, 9298 WALSCO #2516, 2518, 2519
A29..... GENERAL CEMENT #8721, 8722 WALSCO #2519

AM ALIGNMENT—MODE SELECTOR IN MON. AM POSITION

Set Antenna switch to "ANT." position.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
1.	High side thru . 01mfd to pin 7 (grid) of AM Converter. Low side to chassis.	455KC (Unmod.)	AM(Narrow) Point of non-interference.	DC probe to point ⊕ . Common to chassis.	A1, A2, A3, A4, A5, A6	Adjust for maximum deflection.
2.	"	"	"	DC probe to point ⊕ . Common to chassis.	A7, A8	Connect clip lead from point C to ⊕ . Common to chassis. Connect 100Ω resistor across winding not being adjusted. Adjust for maximum deflection.
3.	Across AM antenna terminals with 50mmf in high side.	1500KC	1500KC	DC probe to point ⊕ . Common to chassis.	A9, A10 A11	Adjust for maximum deflection.
4.	"	600KC	600KC	"	A12, A13 A14	Adjust for maximum deflection. Repeat Steps 3 and 4.
5.	High side thru . 01mfd to pin 2 (grid) of AM A'P Amp. Low side to chassis.	10KC		Output Meter across AM Output jack.	A15, A16 R5	Adjust for MINIMUM output.



CHASSIS TOP VIEW—ALIGN. IDENTIFICATION

FM ALIGNMENT INSTRUCTIONS

FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM — MODE SELECTOR IN MON. FM POSITION

AFC fully counterclockwise.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
6.	High side thru . 01mfd to point ⊕ . Low side to chassis.	10.7MC (Unmod.)	(FM) Point of non-interference.	DC probe thru 100K to point ⊕ . Common to chassis.	A17	Adjust for maximum deflection.
7.	"	"	"	DC probe to point ⊕ . Common to chassis.	A18	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.
8.	"	"	"	DC probe thru 100K to point ⊕ . Common to chassis.	A19	Adjust for maximum deflection.
9.	"	"	"	Not Used.	R7	Short point ⊕ to chassis. Adjust to center FM Tuning meter.
10.	"	"	"	"	A20	Remove short. Adjust to center FM tuning meter.
11.	High side thru . 01mfd to pin 7 (grid) of FM Mixer. Low side to chassis.	"	"	DC probe to point ⊕ . Common to chassis.	A31, A32, A33, A34, A35, A36, A27, A28	Adjust for maximum deflection.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE — MODE SELECTOR IN MON. FM POSITION

AFC fully counterclockwise.
Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120% sawtooth voltage in scope for horizontal deflection.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
6.	High side thru . 01mfd to point ⊕ . Low side to chassis.	10.7MC (450KC Swp)	(FM) Point of non-interference.	Vert. amp. thru 100K to point ⊕ . Low side to chassis.	A17	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown.
7.	"	"	"	Vert. Amp. to point ⊕ . Low side to chassis.	A18	Adjust to place marker at the center of crossover lines similar to Fig. 2. SLIGHTLY retouch A17 for maximum amplitude and straightness of cross-over lines.
8.	"	"	"	Vert. Amp. thru 100K to point ⊕ . Common to chassis.	A19	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown.
9.	"	"	"	Not Used.	R7	Short point ⊕ to chassis. Adjust to center FM Tuning meter.
10.	"	"	"	"	A20	Remove short. Adjust to center FM tuning meter.
11.	High side thru . 01mfd to pin 7 (plate) of FM Mixer. Low side to chassis.	"	"	Vert. Amp. thru 100K to point ⊕ . Low side to chassis.	A21, A22, A23, A24, A25, A26, A27, A28	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown.

FM RF ALIGNMENT — MODE SELECTOR IN MON. FM POSITION

AFC fully counterclockwise.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
12.	Across FM antenna terminals with 120Ω in each lead.	108MC (Unmod.)	(FM) 108MC	DC probe to point ⊕ . Common to chassis.	A29, A30, A31, A32	Adjust for maximum deflection.
13.	"	88MC	88MC	"	A33, A34, A35, A36	Adjust for maximum deflection. Repeat steps 12 and 13.

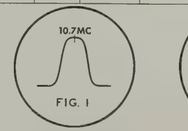


FIG. 1

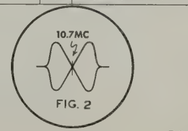
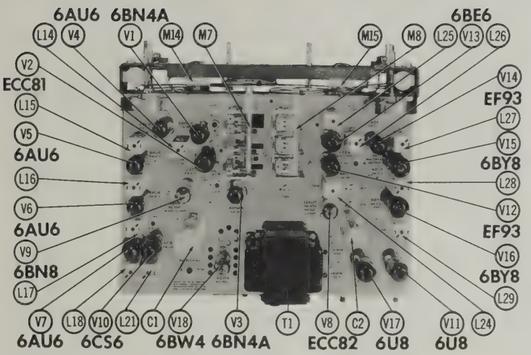


FIG. 2

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS

TUBES

ITEM No.	* GENERAL ELECTRIC USE	TYPE	* RAYTHEON ITEM No.	* SYLVANIA USE	TYPE
V1	FM RF Amplifier	6BN4A	V10	FM Limiter	6CB6
V2	FM RF Amp., FM Mixer	ECC81/12AT7	V11	FM A'P Amp.	6BE6/6BA6
V3	FM Mixer	6AU6	V12	FM Ratio Detector	6BY8
V4	1st FM I'F Amp.	6AU6	V13	AM Converter	6BE6/6BA6
V5	2nd FM I'F Amp.	6AU6	V14	AM I'F Amp.-AM Det., AM A'C Amp.	6BE6/6BA6
V6	3rd FM I'F Amp.	6AU6	V15	2nd AM I'F Amp.-AM Det., AM A'C Amp.	6BY8
V7	FM Tuning Meter Amp. - AM 1st A'F Amp.	6CS6/12AU7	V16	3rd AM I'F Amp., AM A'F Amp.	6BY8
V8	FM Ratio Det., FM A'F Amp., AM Det., AM Clamper	6BW4	V17	AM A'F Amp.	6U8
V9	FM Squelch Amp., FM A'F Amp., AM Noise Limiter	6BN8	V18	Rectifier	6BW4

ELECTROLYTIC CAPACITORS

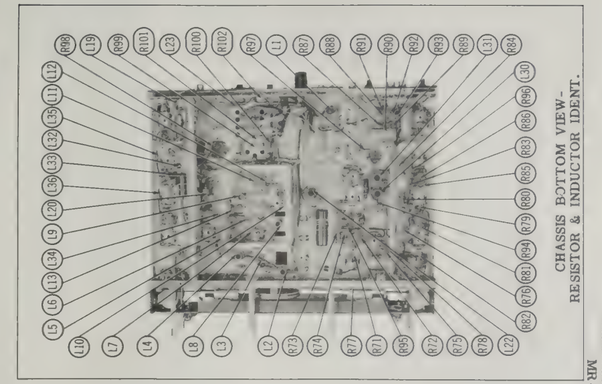
ITEM No.	RATING MFD.	VOLT.	REPLACEMENT DATA ARVIN/VOX PART No.	CORNELL DUBILIER PART No.	MALLORY P.R. PART No.	SPRAGUE PART No.	ITEM No.	RATING MFD.	VOLT.	REPLACEMENT DATA ARVIN/VOX PART No.	CORNELL DUBILIER PART No.	MALLORY P.R. PART No.	SPRAGUE PART No.
C34	20	350	AVR4-40-450	32005-CD	FP316-8 TC139	TVPA-3510 TVPA-1139	C41	30	350	AVR4-40-450	32005-CD	FP316-8 TC139	TVPA-3510 TVPA-1139
C35	40	350					C42	40	350				
C36	20	350	A1921-06	32005-CD	FP316-8 TC139	TVPA-3510 TVPA-1139	C43	20	350	A1921-06	32005-CD	FP316-8 TC139	TVPA-3510 TVPA-1139
C37	40	350	P1001159	32005-CD	FP316-8 TC139	TVPA-3510 TVPA-1139	C44	40	350	P1001159	32005-CD	FP316-8 TC139	TVPA-3510 TVPA-1139
C38	30	150		P32D700	QT-1 TC7003	TVPA-1150 TVPA-1150	C45	30	150		P32D700	QT-1 TC7003	TVPA-1150 TVPA-1150
C39	30	350		P32D703	QT-1 TC7003	TVPA-1150 TVPA-1150	C46	30	350		P32D703	QT-1 TC7003	TVPA-1150 TVPA-1150
C40	30	350		P32D710	QT-1 TC7003	TVPA-1150 TVPA-1150	C47	30	350		P32D710	QT-1 TC7003	TVPA-1150 TVPA-1150

* Not normally in distributor's stock. Available from distributor on order to manufacturer.

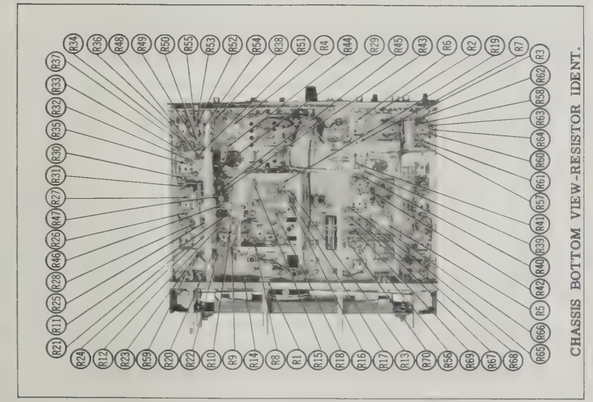
FIXED CAPACITORS

Capacity values given in the ratings column are in mfd. for Paper and Electrolytic capacitors, and in mmf. for Mica capacitors.

ITEM No.	RATING	REMARKS	REPLACEMENT DATA ARVIN/VOX PART No.	CORNELL DUBILIER PART No.	ELECTRO MOTIVE PART No.	MALLORY P.R. PART No.	SPRAGUE PART No.	ITEM No.	RATING	REMARKS	REPLACEMENT DATA ARVIN/VOX PART No.	CORNELL DUBILIER PART No.	ELECTRO MOTIVE PART No.	MALLORY P.R. PART No.	SPRAGUE PART No.
C1	10	1KV ±5%	XPO-DE 10	DYE-10	CONDC	CCTO-100	2DTCC-420	C24	100		CHO-410			CHO-410	2DTCC-420
C2	6.8	1KV ±5%	XPO-DE 6.8	DYE-6.8	CDYSBC	CCTO-689	1DTCC-194	C25	500		CHO-456			CHO-456	1DTCC-194
C3	.001		BYPO-001	DD-102	BYA1001	CCTO-102	CCD-102	C26	.005		B-305			B-305	5MK-503
C4	.005		BYPO-005	DD-502	BYA1005	CCTO-502	CCD-502	C27	.005		B-305			B-305	5MK-503
C5	.001		BYPO-001	DD-102	BYA1001	CCTO-102	CCD-102	C28	.001		B-310			B-310	5MK-509
C6	.001		BYPO-001	DD-102	BYA1001	CCTO-102	CCD-102	C29	.001		CTSBA			CTSBA	5MK-509
C7	.001		EF-001	MFT-1000		CCF-102	CTSBA	C30	.001		CTSBA			CTSBA	
C8	.001		EF-001	MFT-1000	BYA1001	CCF-102	CTSBA	C31	.001		CTSBA			CTSBA	
C9	6.8	1KV ±5%	XPO-DE 6.8	DYE-6.8	CDYSBC	CCTO-689	1DTCC-194	C32	.005		CHO-568			CHO-568	1DTCC-198
C10	3	1KV ±0.5%	XPO-DE 3	DYE-3	CDYSBC	CCTO-309	1DTCC-193	C33	.005		CHO-338			CHO-338	1DTCC-193
C11	1.5	1KV ±0.5%	XPO-DE 1.5	DYE-1.5	CDYSBC	CCTO-159	1DTCC-192	C34	.005		CHO-568			CHO-568	1DTCC-198
C12	1.5	1KV ±0.5%	XPO-DE 1.5	DYE-1.5	CDYSBC	CCTO-159	1DTCC-192	C35	.005		CHO-145			CHO-145	1DTCC-193
C13	33	1KV ±10%	XPO-DE 33	DYE-33	CDYSBC	CCTO-339	1DTCC-197	C36	.001		CHO-457			CHO-457	1DTCC-197
C14	.001		EF-001	MFT-1000		CCF-102	CTSBA	C37	.001		CTSBA			CTSBA	
C15	.001		EF-001	MFT-1000		CCF-102	CTSBA	C38	.001		CTSBA			CTSBA	
C16	.001		EF-001	MFT-1000		CCF-102	CTSBA	C39	.001		CTSBA			CTSBA	
C17	.001					* CCF-102		C40	.001					* CCF-102	
C18	5	1KV ±10%	EF-005	MFT-1050		CCF-502	CTSBA	C41	.005		CTSBA			CTSBA	
C19	.001		EF-001	MFT-1000		CCF-102	CTSBA	C42	.005					* CCF-502	
C20	.005		EF-005	MFT-1050		CCF-502	CTSBA	C43	.005					* CCF-502	
C21	.005		BYPO-005	DD-502	BYA1005	CCTO-502	CCD-502	C44	.005		B-305			B-305	5MK-503
C22	.001		BYPO-001	DD-102	BYA1001	CCTO-102	CCD-102	C45	.005		B-305			B-305	5MK-503
C23	.005		DI-5000	DD-502	BYA1005	CCTO-502	CCD-502	C46	.005		B-305			B-305	5MK-503
C24	.01		BYPO-01	DD-103	BYA1003	CCTO-103	CCD-103	C47	.005		B-305			B-305	5MK-503
C25	.05		BYPO-05	DD-503	BYA1008	CCTO-503	CCD-503								



CHASSIS BOTTOM VIEW-
RESISTOR & INDUCTOR IDENT.



CHASSIS BOTTOM VIEW-RESISTOR IDENT.

MCINTOSH MODEL MR-66

FOLDER 11

PARTS LIST AND DESCRIPTIONS (Continued)

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C36	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C37	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C38	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C39	2.2 10%		NPO-SI 2.2	TCZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C40	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C41	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C42	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C43	.001		EF-001	MFT-1000		CCF-102	CT280A	
C44	.005		BPD-005	DD-502	BYA10D5	CCD-502 *	B-250	5HK-D50
C45	47 N470							
C46	100		EF-0001	MFT-100				
C47	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C48	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C49	.001		EF-001	MFT-1000		CCF-102	CT280A	
C50	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C51	.005	(.01) †	BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C52	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C53	.001		EF-001	MFT-1000		CCF-102	CT280A	
C54	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C55	6.8 NPO 5%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C56	10 NPO 5%		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100 *	CNO-410	10TCC-Q10
C57	47 N470							
C58	.001		EF-001	MFT-1000		CCF-102	CT280A	
C59	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C60	100		EF-0001	MFT-100				
C61	470 2%					VCM-20-471G	MCE244	
C62	.001		EF-001	MFT-1000		CCF-102	CT280A	
C63	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C64	470		DI-470	DD-471	BYA10T47	CCD-471	B-347	10TS-T47
C65	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C66	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C67	100		DI-100	DD-101	L10T1	CCD-101	GP310	10TS-T10
C68	.047 200V		P288N-047	DD-503	CUB2S47	4DP-3-473 *	GEM-4147	2TM-S47
C69	47 N470							
C70	2.2 10%		NPO-SI 2.2	TCZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C71	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C72	.015 200V		P288N-015	DD-153	CUB4S15	4DP-1-153	GEM-415	4TM-S15
C73	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C74	.47 200V		P288N-47		CUB4P47	2DP-5-474	GEM-2047	2TM-P47
C75	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C76	.02	(.01) †	BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C77	.01		BPD-01	DD-103	BYA10S1	CCD-103 *	B-110	5HK-S10
C78	15 N150 5%							10TCP-Q15
C79	.0033 200V		P288N-0033	D6-332	CUB6D33	6DP-1-332 *	GEM-6233	6TM-D33
C80	47 N470							
C81	470 5%	Note 1	1469-00047		5R5T47	CM-19B-471J	MCJ244	MS-347
C82	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C83	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C84	470 5%		1469-00047		5R5T47	CM-19B-471J	MCJ244	MS-347
C85	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C86	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C87	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C88	470 5%		1469-00047		5R5T47	CM-19B-471J	MCJ244	MS-347
C89	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C90	2.7 10%				C10V3C			10TCC-V27
C91	.47mmf 10%							
C92	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C93	2.2 10%		NPO-SI 2.2	TCZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C94	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C95	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C96	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C97	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C98	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C99	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C100	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C101	.0047 5%		1464-0047		1R5D47	CM-20B-472J	MCJ464	MS-247
C102	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C103	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C104	.001		EF-001	MFT-1000		CCF-102	CT280A	
C105	.001		EF-001	MFT-1000		CCF-102	CT280A	
C106A	.01		BPD-2X01	DD3-103	BYD60S1	CCD-103	UAC-2X110	5HK-2S10
B	.01					CCD-102		

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C107	470 5%	Note 1	1469-00047		5R5T47	CM-19B-471J	MCJ244	MS-347

† Alternate Value.
Note 1. Not used in some versions.
* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESISTANCE	WATTS	McINTOSH PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R1A	500K	½	R50001-3	B-59	A47-500K-S	Q11-133	U50	Auto Freq. Control
B	Shaft			Not Req.	FS-3	Not Req.	Not Req.	
R2A	20K	½	R50000-5	AB-25	A47-25K-W	B13-120	U24	AM Level
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	
R3A	20K	½	R50000-5	AB-25	A47-25K-W	B13-120	U24	FM Level
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	
R4A	10K	½	R50000-7	AB-14	A47-10K-S	B11-116	SU-20	Squelch
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	
R5A	7500Ω	½	R50000-6	AB-13	A47-7500-S	B11-115	SU-20	10KC Whistle Filter
B	Shaft			AK-1	FKS-1/4	SK6	Not Req.	
R6	250Ω	2(WW)			39-300	112-300	FL-250	AM Meter Adjust
R7	5000Ω	2(WW)			39-5000	112-5000	FL-5K	FM Meter Adjust

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS			IRC PART No.	WORKMAN TV PART No.	REMARKS
R8	470Ω				R43	47K			
R9	68Ω				R44	100K			
R10	470K				R45	470Ω			
R11	470K				R46	470K			
R12	1000Ω				R47	220K			
R13	100K				R48	22K			
R14	330K				R49	1000Ω			
R15	1meg				R50	18K			
R16	100K				R51	100K			
R17	680K				R52	10K			
R18	22K				R53	10K			
R19	10Ω				R54	68Ω			
R20	220K				R55	3300Ω			
R21	220K				R56	150K			
R22	220Ω				R57	1meg			
R23	1000Ω				R58	220K			
R24	10K				R59	2200Ω			
R25	470K				R60	2700Ω			
R26	220K				R61	33K			
R27	220Ω				R62	1meg			
R28	220Ω				R63	15K			
R29	220Ω				R64	390Ω			
R30	100K				R65	15Ω			
R31	220Ω				R66	10K			
R32	100K				R67	470K			
R33	47K				R68	4700Ω			
R34	4700Ω				R69	68Ω			
R35	220Ω				R70	220K			
R36	47K				R71	10Ω			
R37	47K				R72	22K			
R38	10K				R73	470Ω			
R39	1meg				R74	470Ω			
R40	2.2meg				R75	470K			
R41	68K				R76	1000Ω			
R42	1000Ω				R77	330Ω			

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS (cont)

ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS
R78	82Ω			
R79	820K			
R80	1000Ω			
R81	330Ω			
R82	22K			
R83	100K			
R84	470Ω			
R85	330Ω			
R86	33K			
R87	1meg			
R88	220K			
R89	2700Ω			
R90	33K			
R91	1meg			

ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS
R92	15K			
R93	390Ω			
R94	10K			
R95	470Ω			
R96	470Ω			
R97	2200Ω			
R98	220Ω			
R99	220Ω 5W	PW5-220	5W-SQ-220	
R100	2200Ω			
R101	220Ω 5W	PW5-220	5W-SQ-220	
R102	4.7Ω 5W	PW5-4.7	5W-SQ-4.7	
R103	1000Ω			
R104	10meg			

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	McINTOSH PART No.	REPLACEMENT DATA
K1	AM Det. RF Filter	(2) 10mmf, 15mmf, 100mmf, (3) 220K	PC107-165	
K2	AM AVC Filter	220mmf, (2) .01mfd, 27K, (3) 470K	PC107-164	

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		McINTOSH PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	
L1	Ant. Matching						① Wound on 47Ω
L2	FM Ant.						
L3	Coupling						
L4	FM Ant.						
L5	RF Choke (2.2uh)		BC-563	4606	RTC-8517	T857	
L6	RF Choke	①					
L7	RF Choke (1.2uh)		BC-561	4602	RTC-8515	T855	
L8	FM RF						
L9	FM Osc.						
L10	RF Choke (1.2uh)		BC-561	4602	RTC-8515	T855	
L11	Fil. Choke (2.2uh)		BC-563	4606	RTC-8517	T857	
L12	Fil. Choke (2.2uh)		BC-563	4606	RTC-8517	T857	
L13	RF Choke (1.2uh)		BC-561	4602	RTC-8515	T855	
L14	1st FM IF		FM-254	1463	RTC-8599	T633	
L15	2nd FM IF		FM-254	1463	RTC-8599	T633	
L16	3rd FM IF		FM-254	1463	RTC-8599	T633	
L17	4th FM IF		FM-254	1463	RTC-8599	T633	
L18	Discriminator		FM-253	1464	RTC-8665	T634	
L19	RF Choke (75uh)		TV-186	6172	RTC-8590	T303	
L20	RF Choke(2.5MH)		BC-549	4666	RTC-9175	T843	
L21	AFC Discriminator		FM-253	1464	RTC-8665	T634	
L22	AM Ant.		BC-380	70-A	RTC-8731	T500	
L23	RF Choke (4.7uh)		SW-631	4609	RTC-8519	T819	
L24	AM Ant.						
L25	AM Osc.		BC-392	A-121-C	RTC-8760	T508	
L26	1st AM IF						
L27	2nd AM IF						
L28	3rd AM IF		BC-353	12-C2	RTC-8633	T608	
L29	4th AM IF(AVC)		BC-353	12-C2	RTC-8633	T608	
L30	10KC Filter						
L31	10KC Filter						
L32	RF Choke(75uh)		TV-186	6172	RTC-8590	T303	
L33	Fil. Choke (1.2uh)		BC-561	4602	RTC-8515	T855	
L34	Fil. Choke (1.2uh)		BC-561	4602	RTC-8515	T855	
L35	Fil. Choke (1.2uh)		BC-561	4602	RTC-8515	T855	
L36	Fil. Choke (1.2uh)		BC-561	4602	RTC-8515	T855	

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	McINTOSH PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	117V Ⓐ .76A	350VCT Ⓐ .110A DC	6.3V Ⓐ 6A						
	SEC. 3	SEC. 4	SEC. 5						
	6.3VCT Ⓐ 1.1A								

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			McINTOSH PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	3AG	1A 125V S/B			313001 (3AG 1A 125V S/B)	342001	MDL 1	HKP

SIGNAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		McINTOSH PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	
M2					AFC
M3	1N541			1N541	Discriminator
M4	1N541			1N541	(AFC-Squelch-Tuning Ind.)
M5	1N541			1N541	Discriminator
M6	1N541			1N541	(Audio)

MISCELLANEOUS

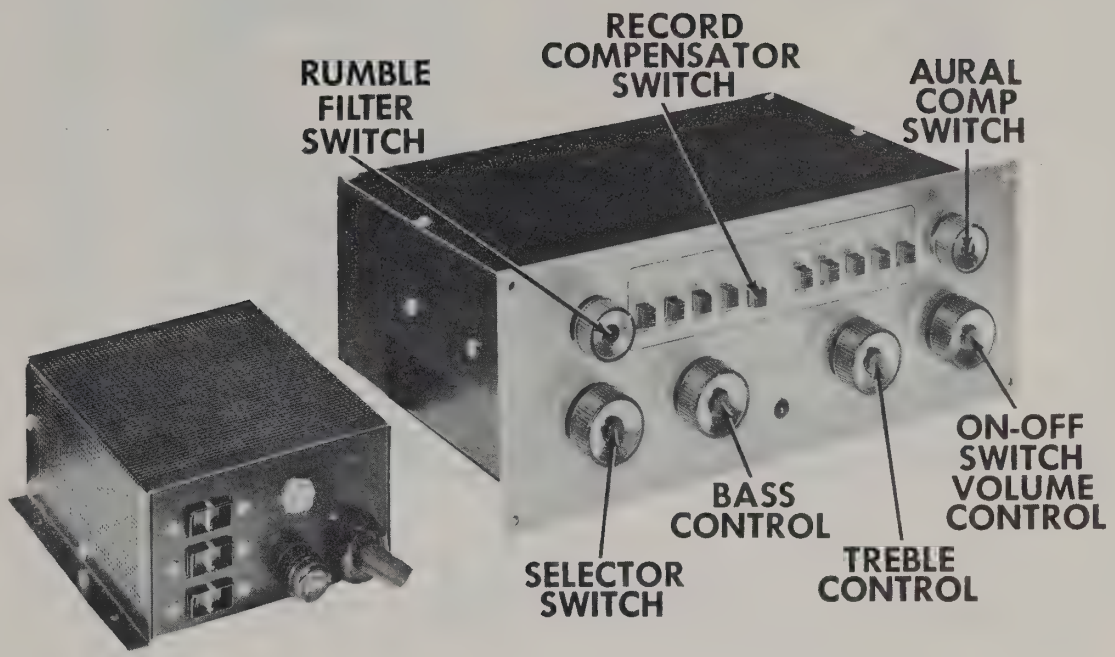
ITEM No.	PART NAME	McINTOSH PART No.	NOTES
M7	Tuning Cap.		FM, 3 Gang
M8	Tuning Cap.		AM, 3 Gang (1st Ant. 10—508mmf, 2nd Ant. 7—495mmf, Osc. 4—156mmf)
M9	Switch		AM Selector (Rotary Wafer Type)
M10	Switch		Mode (Rotary Wafer Type)
M11	Switch		Selector (Mute Out, Mute In, & FM Out)
M12	Switch		AM Antenna (DPDT Slide Type)
M13	Switch		Lamps (Hi-Lo) (DPST Slide Type)
M14	Meter		FM, Tuning Indicator
M15	Meter		AM, Tuning Indicator

WIRING DATA

General-use Unshielded Hook-up Wire ..... Use BELDEN No. 8530 (Solid) Available in Ten Colors
8524 (Stranded) Available in Ten Colors

Power Cord ..... Use BELDEN No. 1765-B (6 Ft. Length)
1725-K (7½ Ft. Length)

MC INTOSH MODELS
C-8, C-8P, D-8



MC INTOSH MODELS
C-8, C-8P, D-8

TRADE NAME	McIntosh Models C-8, C-8P, D-8 (Power Supply for Model C-8P)
MANUFACTURER	McIntosh Laboratory Inc., 320 Water St., Binghamton, N. Y.
TYPE SET	AC Operated 5 Channel Equalizer Preamplifier
TUBES (Four)	Types 12AX7 1st AF Amplifier-2nd AF Amplifier, 12AX7 1st Cathode Follower-2nd Cathode Follower, 12AX7 3rd AF Amplifier-3rd Cathode Follower, 5Y3GT Rectifier
POWER SUPPLY	110-120 Volts AC-60 Cycles RATING .21 Amp. @ 117 Volts AC

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed." "Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. Copyright 1956 by Howard W. Sams & Co., Inc., Indianapolis 5, Indiana, U. S. of America. Copyright under international Copyright Union. All rights reserved under Inter-American Copyright Union (1910) by Howard W. Sams & Co., Inc." Printed in U. S. of America

PARTS LIST AND DESCRIPTIONS

TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	REPLACEMENT DATA: MC INTOSH PART No.	REPLACEMENT DATA: STANDARD REPLACEMENT	NOTES
V1	1st AF Amp. -2nd AF Amp.	12AX7	12AX7	
V2	1st Cathode Follower- 2nd Cathode Follower	12AX7	12AX7	
V3	3rd AF Amp. - 3rd Cathode Follower	12AX7	12AX7	
V4	Rectifier	5Y3GT	5Y3GT	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING: CAP.	RATING: VOLT.	REPLACEMENT DATA: MC INTOSH PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
C1	10	450		PRS450V10	BR1045	TC72	TD-10-450	FM-4510	TVA-1705
C2A	▲ 20	450			BO43	TCT3432	TM-D30-300	D-225	TVL-2759
B	▲ 30	250			BR2045		TD-20-450	FM-4520	TVA-1709
C	■ 30	300							
C3	50	6		SRE6V50	BBR50-6	TC29	TD-50-6	MMT-650	TVA-1100

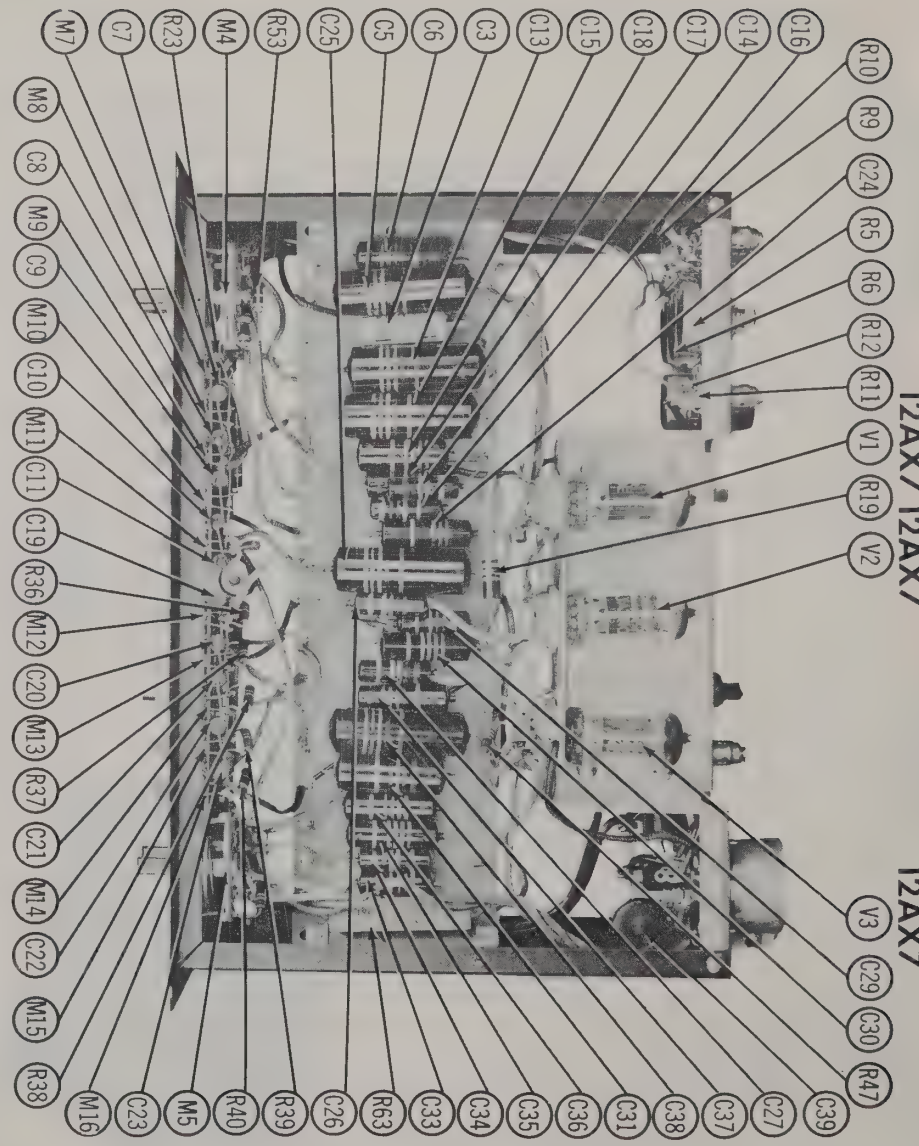
FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING: CAP.	RATING: VOLT	REPLACEMENT DATA: MC INTOSH PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	NOTES
C4	100			SI100	D6-101	TP34	GP1K-101	UC-531	5GA-T1	
C5	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C6	.033	400		BPD-03	DF-303	CUB6S33		PT6133	6TM-S33	
C7	330			SI330	D6-331	TP43	GP2K-331	UC-5333	5GA-T33	
C8	470			SI470	D6-471	TP46	GP2K-471	UC-5347	5GA-T47	
C9	750			SI750	D6-751	TP51	GP2L-751	UC-5375	5GA-T75	
C10	1000			SI1000	D6-102	TP52	GP2L-102	UC-521	5HK-D1	
C11	1500			SI1500	D6-152	TP54	GP2L-152	UC-5215	5HK-D15	
C12	1500			SI1500	D6-152	TP54	GP2L-152	UC-5215	5HK-D15	
C13	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C14	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C15	.0047	400		1464-0047		1R5D47			MS-247	
C16	.01	400								
C17	.022	400								
C18	.047	400								
C19	220			SI220	D6-221	TP39	GP2K-221	UC-5322	5GA-T22	
C20	330			SI330	D6-331	TP43	GP2K-331	UC-5333	5GA-T33	
C21	470			SI470	D6-471	TP46	GP2K-471	UC-5347	5GA-T47	
C22	750			SI750	D6-751	TP51	GP2L-751	UC-5375	5GA-T75	
C23	1500			SI1500	D6-152	TP54	GP2L-152	UC-5215	5HK-D15	
C24	.033	400		BPD-03	DF-303	CUB6S33		PT4133	6TM-S33	
C25	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C26	.001	400		1464-001		1R5D1		MCB255	MS-21	
C27	.01	400								
C28	100			SI100	D6-101	TP34	GP1K-101	UC-531	5GA-T1	
C29	.0022	400		1464-0022		1R5D22			MS-222	
C30	.022	400								
C31	.1	400		P488N-1	DF-104	CUB4P1		PT401	4TM-P1	
C32	330			SI330	D6-331	TP43	GP2K-331	UC-5333	5GA-T33	
C33	.0047	400		1464-0047		1R5D47		MCB465	MS-247	
C34	.01	400								
C35	.022	400								
C36	.022	400								
C37	.033	400		BPD-03	DF-303	CUB6S33		PT4133	6TM-S33	
C38	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C39A	10000			BPD-2X01	DD3-103	DK082	811-01	DC-511	5HK-2S1	
B	10000						811-01	DC-511		
C40	4700			BPD-0047	DD-472	KO79	811-0047	DC-525	5HK-D47	Note 1
C41A	10000			BPD-2X01	DD3-103	DK082	811-01	DC-511	5HK-2S1	
B	10000						811-01	DC-511		

Note 1. Not used in some versions.

CHASSIS—TOP VIEW

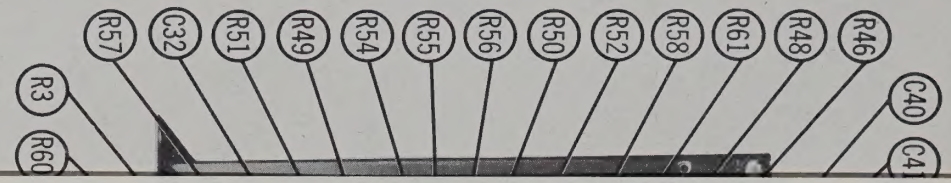


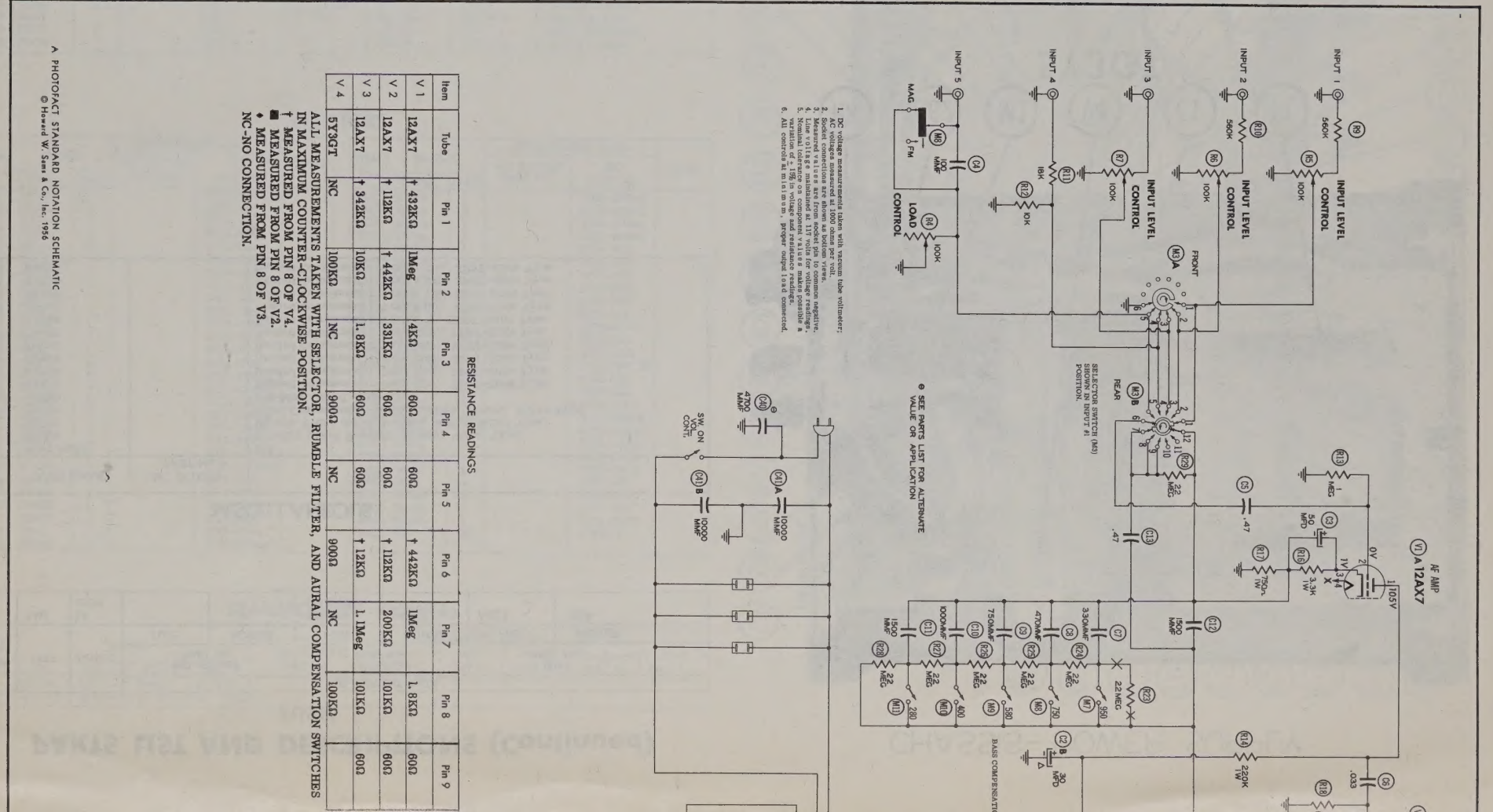
PARTS LIST AND DESCRIPTIONS (Continued)

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESISTANCE	WATTS	MC INTOSH PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	
R1A	1Meg	1/2		AB-70	A47-1Meg-Z	Q13-137	U-53	Bass
B	Shaft			AK-4	KSS-3	Not Req.	Not Req.	Attach to R1A.
R2A	250KΩ	1/2		AB-51	A47-250K-Z	Q13-130	U-44	Treble
B	Shaft			AK-4	KSS-3	Not Req.	Not Req.	Attach to R2A.
R3A	250KΩ	1/2		AB-51	A47-250K-Z	Q13-130	U-44	Volume
B	Shaft			AK-4	KSS-3	Not Req.	Not Req.	Attach to R3A.
C	Switch			KB-2	SWE-20	76-2	US-27	Attach to R3A.

CHASSIS—BOTTOM VIEW




AF AMP (V1) A 12AX7
INPUT 1
INPUT 2
INPUT 3
INPUT 4
INPUT 5
MAG
PH
INPUT LEVEL CONTROL
LOAD CONTROL
FRONT
REAR
SELECTOR SWITCH (M5) SHOWN IN INPUT #1 POSITION.
SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
BASS COMPENSATION
SW. ON VOL. CONT.
105V
0V
1V
RESISTANCE READINGS
1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
2. Resistance measurements made with ohmmeter connected to chassis.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of ±10% in resistance readings.
6. All controls at minimum, proper output load connected.

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	12AX7	† 432KΩ	1Meg	4KΩ	60Ω	60Ω	† 442KΩ	1Meg	60Ω	
V 2	12AX7	† 112KΩ	† 442KΩ	331KΩ	60Ω	60Ω	† 112KΩ	200KΩ	101KΩ	60Ω
V 3	12AX7	† 342KΩ	10KΩ	1.8KΩ	60Ω	60Ω	† 12KΩ	1.1Meg	101KΩ	60Ω
V 4	5Y3GT	NC	100KΩ	NC	900Ω	NC	900Ω	NC	100KΩ	

ALL MEASUREMENTS TAKEN WITH SELECTOR, RUMBLE FILTER, AND AURAL COMPENSATION SWITCHES IN MAXIMUM COUNTER-CLOCKWISE POSITION.
† MEASURED FROM PIN 8 OF V4.
■ MEASURED FROM PIN 8 OF V2.
♦ MEASURED FROM PIN 8 OF V3.
NC-NO CONNECTION.

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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PARTS LIST AND DESCRIPTIONS

TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	REPLACEMENT DATA: MC INTOSH PART No.	REPLACEMENT DATA: STANDARD REPLACEMENT	NOTES
V1	1st AF Amp. -2nd AF Amp.	12AX7	12AX7	
V2	1st Cathode Follower-2nd Cathode Follower	12AX7	12AX7	
V3	3rd AF Amp. -3rd Cathode Follower	12AX7	12AX7	
V4	Rectifier	5Y3GT	5Y3GT	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	RATING VOLT.	MC INTOSH PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
C1	10	450		PRS450V10	BR1045	TC72	TD-10-450	FM-4510	TVA-1705
C2A	● 20	450			BO43	TCT3432	TM-D30-300	D-225	TVL-2759
B	▲ 30	250			BR2045		TD-20-450	FM-4520	TVA-1709
C	■ 30	300							
C3	50	6		SRE6V50	BBR50-6	TC29	TD-50-6	MMT-650	TVA-1100

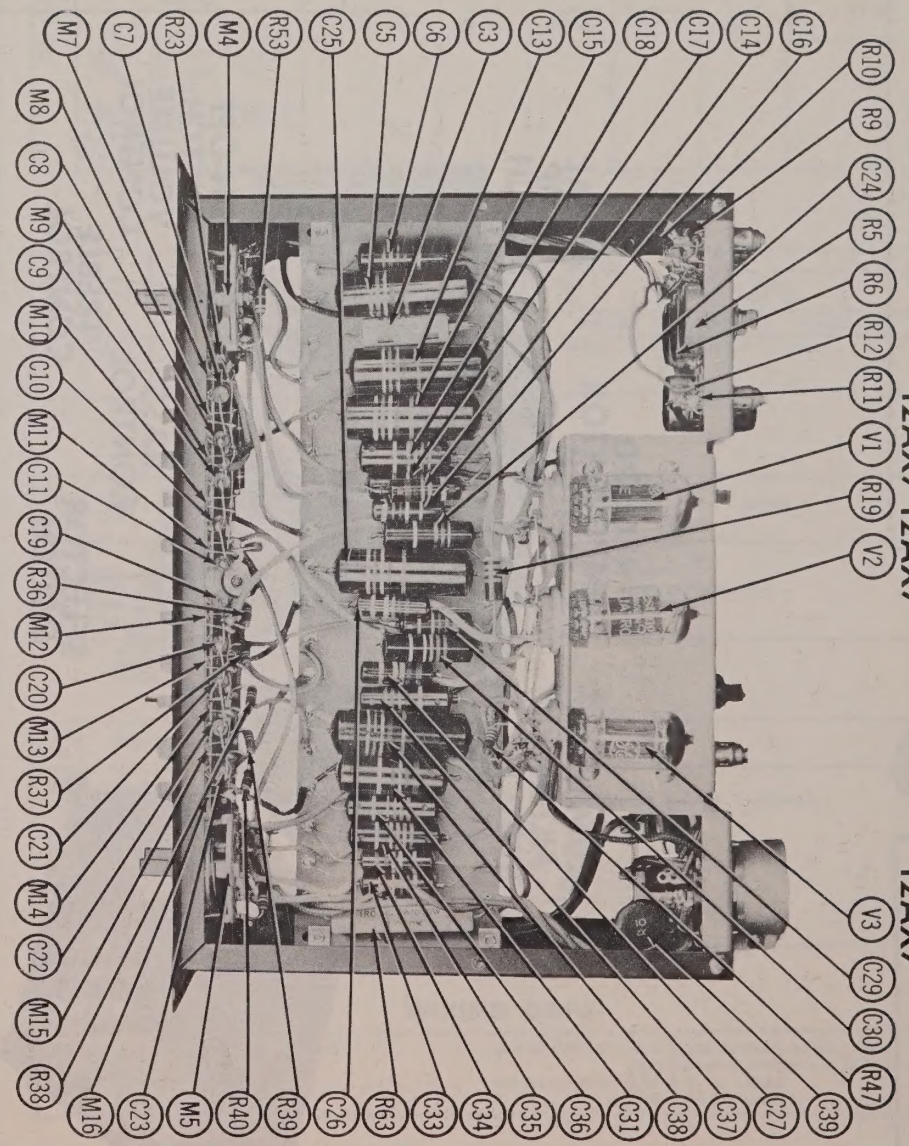
FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP.	RATING VOLT	MC INTOSH PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	NOTES
C4	100			SI100	D6-101	TP34	GP1K-101	UC-531	5GA-T1	
C5	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C6	.033	400		BPD-03	DF-303	CUB6S33		PT6133	6TM-S33	
C7	330			SI330	D6-331	TP43	GP2K-331	UC-5333	5GA-T33	
C8	470			SI470	D6-471	TP46	GP2K-471	UC-5347	5GA-T47	
C9	750			SI750	D6-751	TP51	GP2L-751	UC-5375	5GA-T75	
C10	1000			SI1000	D6-102	TP52	GP2L-102	UC-521	5HK-D1	
C11	1500			SI1500	D6-152	TP54	GP2L-152	UC-5215	5HK-D15	
C12	1500			SI1500	D6-152	TP54	GP2L-152	UC-5215	5HK-D15	
C13	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C14	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C15	.0047	400		1464-0047		1R5D47			MS-247	
C16	.01	400								
C17	.022	400								
C18	.047	400								
C19	220			SI220	D6-221	TP39	GP2K-221	UC-5322	5GA-T22	
C20	330			SI330	D6-331	TP43	GP2K-331	UC-5333	5GA-T33	
C21	470			SI470	D6-471	TP46	GP2K-471	UC-5347	5GA-T47	
C22	750			SI750	D6-751	TP51	GP2L-751	UC-5375	5GA-T75	
C23	1500			SI1500	D6-152	TP54	GP2L-152	UC-5215	5HK-D15	
C24	.033	400		BPD-03	DF-303	CUB6S33		PT4133	6TM-S33	
C25	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C26	.001	400		1464-001		1R5D1		MCB255	MS-21	
C27	.01	400								
C28	100			SI100	D6-101	TP34	GP1K-101	UC-531	5GA-T1	
C29	.0022	400		1464-0022		1R5D22			MS-222	
C30	.022	400								
C31	.1	400		P488N-1	DF-104	CUB4P1		PT401	4TM-P1	
C32	330			SI330	D6-331	TP43	GP2K-331	UC-5333	5GA-T33	
C33	.0047	400		1464-0047		1R5D47		MCB465	MS-247	
C34	.01	400								
C35	.022	400								
C36	.022	400								
C37	.033	400		BPD-03	DF-303	CUB6S33		PT4133	6TM-S33	
C38	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C39A	10000			BPD-2X01	DD3-103	DK082	811-01	DC-511	5HK-2S1	
B	10000						811-01	DC-511		
C40	4700			BPD-0047	DD-472	KO79	811-0047	DC-525	5HK-D47	Note 1
C41A	10000			BPD-2X01	DD3-103	DK082	811-01	DC-511	5HK-2S1	
B	10000						811-01	DC-511		

Note 1. Not used in some versions.

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS

TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	REPLACEMENT DATA MC INTOSH PART No.	REPLACEMENT DATA STANDARD REPLACEMENT	NOTES
V1	1st AF Amp. -2nd AF Amp.	12AX7	12AX7	
V2	1st Cathode Follower-2nd Cathode Follower	12AX7	12AX7	
V3	3rd AF Amp. - 3rd Cathode Follower	12AX7	12AX7	
V4	Rectifier	5Y3GT	5Y3GT	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	RATING VOLT.	MC INTOSH PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
C1	10	450		PRS450V10	BR1045	TC72	TD-10-450	FM-4510	TVA-1705
C2A	▲ 20	450			BO43	TCT3432	TM-D30-300	D-225	TVL-2759
B	▲ 30	250			BR2045		TD-20-450	FM-4520	TVA-1709
C	■ 30	300							
C3	50	6		SRE6V50	BBR50-6	TC29	TD-50-6	MMT-650	TVA-1100

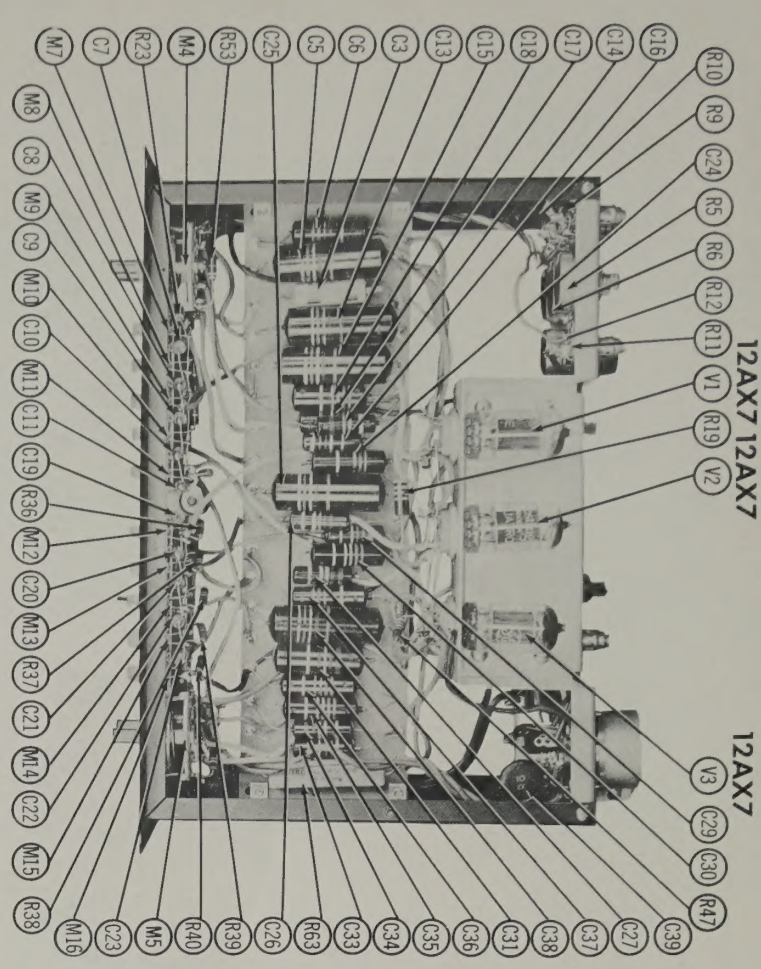
FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP.	RATING VOLT	MC INTOSH PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	NOTES
C4	100			SI100	D6-101	TP34	GP1K-101	UC-531	5GA-T1	
C5	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C6	.033	400		BPD-03	DF-303	CUB6S33		PT6133	6TM-S33	
C7	330			SI330	D6-331	TP43	GP2K-331	UC-5333	5GA-T33	
C8	470			SI470	D6-471	TP46	GP2K-471	UC-5347	5GA-T47	
C9	750			SI750	D6-751	TP51	GP2L-751	UC-5375	5GA-T75	
C10	1000			SI1000	D6-102	TP52	GP2L-102	UC-521	5HK-D1	
C11	1500			SI1500	D6-152	TP54	GP2L-152	UC-5215	5HK-D15	
C12	1500			SI1500	D6-152	TP54	GP2L-152	UC-5215	5HK-D15	
C13	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C14	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C15	.0047	400		1464-0047		1R5D47			MS-247	
C16	.01	400								
C17	.022	400								
C18	.047	400								
C19	220			SI220	D6-221	TP39	GP2K-221	UC-5322	5GA-T22	
C20	330			SI330	D6-331	TP43	GP2K-331	UC-5333	5GA-T33	
C21	470			SI470	D6-471	TP46	GP2K-471	UC-5347	5GA-T47	
C22	750			SI750	D6-751	TP51	GP2L-751	UC-5375	5GA-T75	
C23	1500			SI1500	D6-152	TP54	GP2L-152	UC-5215	5HK-D15	
C24	.033	400		BPD-03	DF-303	CUB6S33		PT4133	6TM-S33	
C25	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C26	.001	400		1464-001		1R5D1		MCB255	MS-21	
C27	.01	400								
C28	100			SI100	D6-101	TP34	GP1K-101	UC-531	5GA-T1	
C29	.0022	400		1464-0022		1R5D22			MS-222	
C30	.022	400								
C31	.1	400		P488N-1	DF-104	CUB4P1		PT401	4TM-P1	
C32	330			SI330	D6-331	TP43	GP2K-331	UC-5333	5GA-T33	
C33	.0047	400		1464-0047		1R5D47		MCB465	MS-247	
C34	.01	400								
C35	.022	400								
C36	.022	400								
C37	.033	400		BPD-03	DF-303	CUB6S33		PT4133	6TM-S33	
C38	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47	
C39A	10000			BPD-2X01	DD3-103	DK082	811-01	DC-511	5HK-2S1	
B	10000						811-01	DC-511		
C40	4700			BPD-0047	DD-472	KO79	811-0047	DC-525	5HK-D47	Note 1
C41A	10000			BPD-2X01	DD3-103	DK082	811-01	DC-511	5HK-2S1	
B	10000						811-01	DC-511		

Note 1. Not used in some versions.

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

CONTROLS

ITEM No.	RATING RESISTANCE	RATING WATTS	MC INTOSH PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
R1A	1Meg	½		AB-70	A47-1Meg-Z	Q13-137	U-53	Bass
B	Shaft			AK-4	KSS-3	Not Req.	Not Req.	Attach to R1A.
R2A	250KΩ	½		AB-51	A47-250K-Z	Q13-130	U-44	Treble
B	Shaft			AK-4	KSS-3	Not Req.	Not Req.	Attach to R2A.
R3A	250KΩ	½		AB-51	A47-250K-Z	Q13-130	U-44	Volume
B	Shaft			AK-4	KSS-3	Not Req.	Not Req.	Attach to R3A.
C	Switch			KB-2	SWE-20	76-2	US-27	Attach to R3A.
R4A	100KΩ	½		AB-40	A47-100K-S	Q11-128	U-41	Load
B	Shaft			AK-9	RS-2	Not Req.	Not Req.	Attach to R4A.
R5A	100KΩ	½		AB-41	A47-100K-Z	Q13-128	U-39	Input #1 Level
B	Shaft			AK-1	FKS-1/4	Not Req.	Not Req.	Attach to R5A.
R6A	100KΩ	½		AB-41	A47-100K-Z	Q13-128	U-39	Input #2 Level
B	Shaft			AK-1	FKS-1/4	Not Req.	Not Req.	Attach to R6A.
R7A	100KΩ	½		AB-41	A47-100K-Z	Q13-128	U-39	Input #3 Level
B	Shaft			AK-1	FKS-1/4	Not Req.	Not Req.	Attach to R7A.
R8A	250Ω	½		AB-2		Q11-201	U-2	Hum Adjustment
B	Shaft			AK-1		Not Req.	Not Req.	Attach to R8A.

RESISTORS

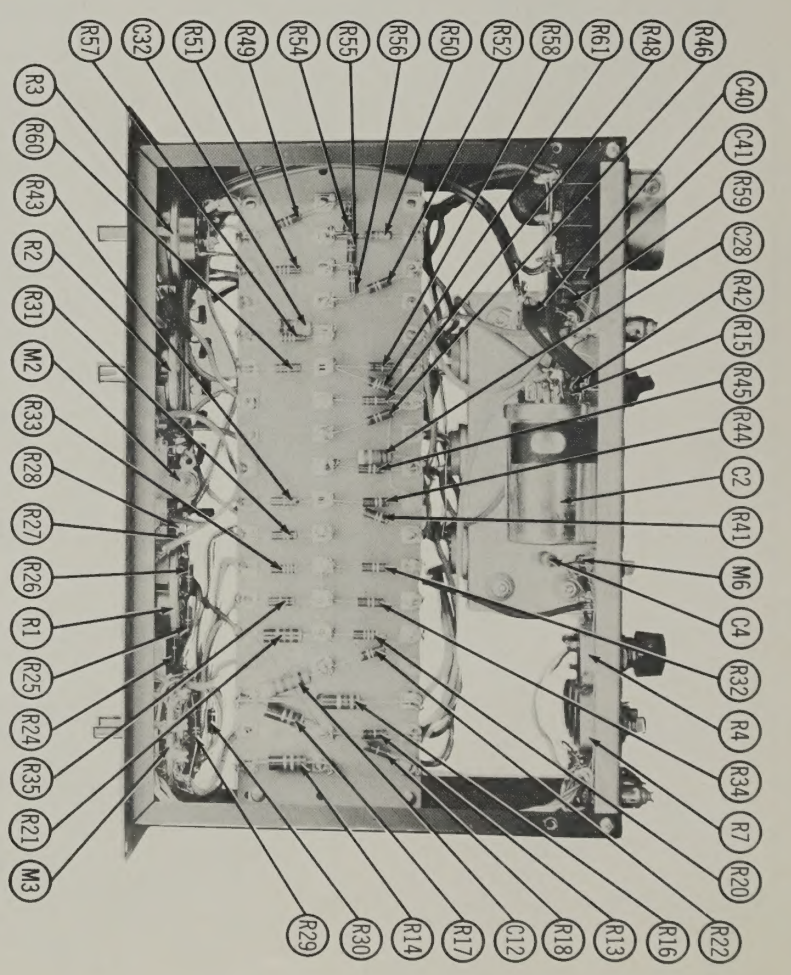
ITEM No.	RATING OHMS	RATING WATT	MC INTOSH PART No.	IRC PART No.	NOTES
R9	560KΩ	½		BTS-560K	
R10	560KΩ	½		BTS-560K	
R11	18KΩ	½		BTS-18K	
R12	10KΩ	½		BTS-10K	
R13	1Meg	½		BTS-1Meg	
R14	220KΩ	1		BTA-220K	
R15	100KΩ	½		BTS-100K	
R16	3300Ω	1		BTA-3300	
R17	750Ω 5%	1		BTA-750 5%	
R18	1Meg	½		BTS-1Meg	
R19	330KΩ	1		BTA-330K	
R20	330KΩ	½		BTS-330K	
R21	1800Ω	1		BTA-1800	
R22	100KΩ	½		BTS-100K	
R23	22Meg	½		BTS-22Meg	
R24	22Meg	½		BTS-22Meg	
R25	22Meg	½		BTS-22Meg	
R26	22Meg	½		BTS-22Meg	
R27	22Meg	½		BTS-22Meg	
R28	22Meg	½		BTS-22Meg	
R29	22Meg	½		BTS-22Meg	
R30	3.9Meg	½		BTS-3.9Meg	
R31	100KΩ	½		BTS-100K	
R32	680KΩ	½		BTS-680K	
R33	330KΩ	½		BTS-330K	
R34	220KΩ	½		BTS-220K	
R35	1Meg	½		BTS-1Meg	
R36	10Meg	½		BTS-10Meg	

ITEM No.	RATING OHMS	RATING WATT	MC INTOSH PART No.	IRC PART No.	NOTES
R37	10Meg	½		BTS-10Meg	
R38	10Meg	½		BTS-10Meg	
R39	10Meg	½		BTS-10Meg	
R40	10Meg	½		BTS-10Meg	
R41	100KΩ	½		BTS-100K	
R42	100KΩ	½		BTS-100K	
R43	1800Ω	½		BTS-1800	
R44	100KΩ	½		BTS-100K	
R45	100KΩ	½		BTS-100K	
R46	10KΩ	½		BTS-10K	
R47	330KΩ	½		BTS-330K	
R48	1800Ω	½		BTS-1800	
R49	180KΩ	½		BTS-180K	
R50	68KΩ 5%	½		BTS-68K 5%	
R51	33KΩ	½		BTS-33K	
R52	15KΩ	½		BTS-15K	
R53	680KΩ	½		BTS-680K	
R54	10Meg	½		BTS-10Meg	
R55	10Meg	½		BTS-10Meg	
R56	10Meg	½		BTS-10Meg	
R57	330KΩ	½		BTS-330K	
R58	1Meg	½		BTS-1Meg	
R59	12KΩ	2		BTB-12K	
R60	1800Ω	½		BTS-1800	
R61	100KΩ	½		BTS-100K	
R62	220KΩ	1		BTA-220K	
R63	2Ω	10		PW10-2	

TRANSFORMER (POWER)

ITEM No.	RATING PRI.	RATING SEC. 1	RATING SEC. 2	RATING SEC. 3	MC INTOSH PART No.	Halldorson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.
T1	117VAC @ .21A	525VCT @ .0045A	5VAC @ 2A	6.3VAC @ .99A						

CHASSIS—BOTTOM VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

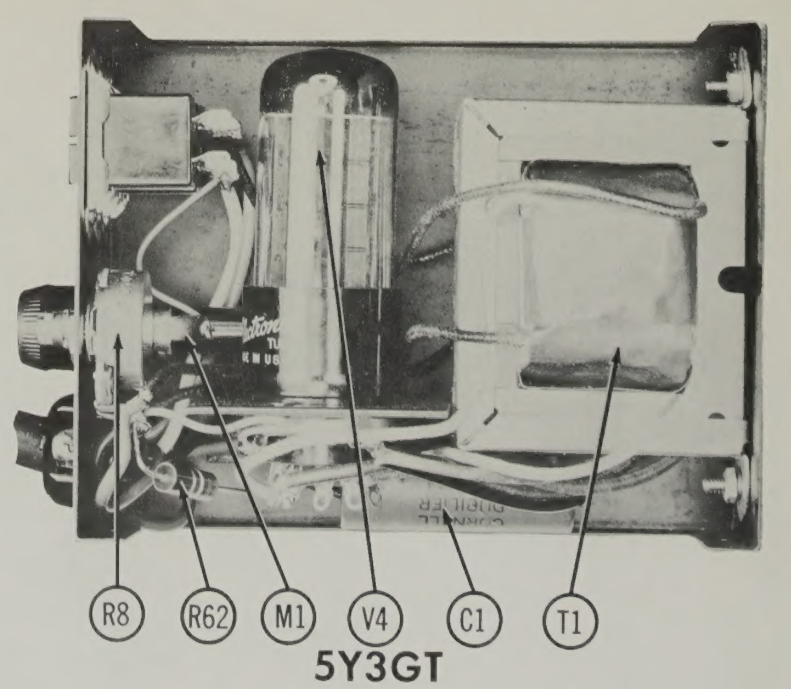
FUSES

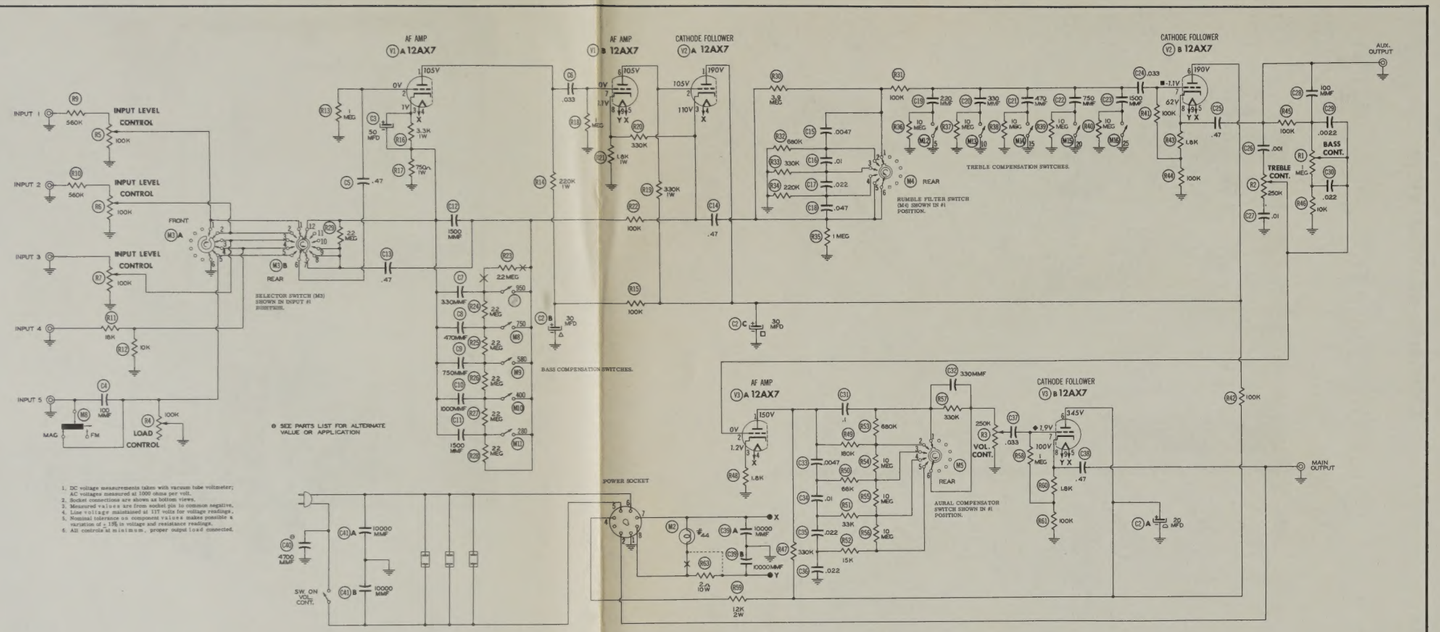
ITEM No.	TYPE	RATING	MC INTOSH PART No. FUSE	MC INTOSH PART No. HOLDER	LITTELFUSE PART No. FUSE	LITTELFUSE PART No. HOLDER	BUSS PART No. FUSE	BUSS PART No. HOLDER
M1	3AG	½A 250V			312.500 (3AG ½A)	342001	AGC½	HKP

MISCELLANEOUS

ITEM No.	PART NAME	MC INTOSH PART No.	NOTES
M2	Pilot Light		#44
M3	Switch		Selector (DP-5 Position, Rotary, Wafer Type)
M4	Switch		Rumble Filter (SP-5 Position, Rotary, Wafer Type)
M5	Switch		Aural Compensator-(SP-5 Position, Rotary, Wafer Type)
M6	Switch		FM-Mag. (SPST-Slide Type)
M7	Switch		Record Compensator-Bass (950), SPST-Slide Type
M8	Switch		Record Compensator-Bass (750), SPST-Slide Type
M9	Switch		Record Compensator-Bass (580), SPST-Slide Type
M10	Switch		Record Compensator-Bass (400), SPST-Slide Type
M11	Switch		Record Compensator-Bass (280), SPST-Slide Type
M12	Switch		Record Compensator-Treble (5), SPST-Slide Type
M13	Switch		Record Compensator-Treble (10), SPST-Slide Type
M14	Switch		Record Compensator-Treble (15), SPST-Slide Type
M15	Switch		Record Compensator-Treble (20), SPST-Slide Type
M16	Switch		Record Compensator-Treble (25), SPST-Slide Type

CHASSIS - POWER SUPPLY





1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from center pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Tolerance of resistors and capacitors make possible a variation of ± 10% in voltage and resistance readings.
6. All controls at minimum, proper output load connected.

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	12AX7	† 432KΩ	1Meg	4KΩ	60Ω	60Ω	† 442KΩ	1Meg	1. 8KΩ	60Ω
V 2	12AX7	† 112KΩ	† 442KΩ	331KΩ	60Ω	60Ω	† 112KΩ	200KΩ	101KΩ	60Ω
V 3	12AX7	† 342KΩ	10KΩ	1. 8KΩ	60Ω	60Ω	† 12KΩ	1. 1Meg	101KΩ	60Ω
V 4	5Y3GT	NC	100KΩ	NC	900Ω	NC	900Ω	NC	100KΩ	

ALL MEASUREMENTS TAKEN WITH SELECTOR, RUMBLE FILTER, AND AURAL COMPENSATION SWITCHES IN MAXIMUM COUNTER-CLOCKWISE POSITION.
† MEASURED FROM PIN 8 OF V4.
■ MEASURED FROM PIN 8 OF V2.
♦ MEASURED FROM PIN 8 OF V3.
NC-NO CONNECTION.

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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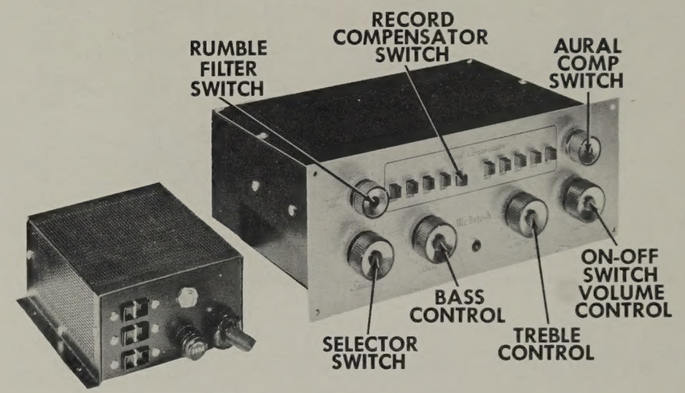
MC INTOSH MODELS
C-8, C-8P, D-8



TRADE NAME	McIntosh Models C-8, C-8P, D-8 (Power Supply for Model C-8P)
MANUFACTURER	McIntosh Laboratory Inc., 320 Water St., Binghamton, N. Y.
TYPE SET	AC Operated 5 Channel Equalizer Preamplifier
TUBES (Four)	Types 12AX7 1st AF Amplifier-2nd AF Amplifier, 12AX7 1st Cathode Follower-2nd Cathode Follower, 12AX7 3rd AF Amplifier-3rd Cathode Follower, 5Y3GT Rectifier
POWER SUPPLY	110-120 Volts AC-60 Cycles RATING .21 Amp. @ 117 Volts AC

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

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DATE 4-56 SET 314 FOLDER 8

MC INTOSH MODELS
C-8, C-8P, D-8